

## About this User's Manual

This user's manual is designed to let you easily find the information you need to get the most from your notebook.

- Introduces you to the features of your notebook.
- Gives you the useful details on using your notebook.
- Tells you how to look after your notebook, whether at home or traveling.
- Talks about Express Card peripherals and how to use them.
- Goes into more detail about power management and explains how to conserve power while on the move.
- Introduces you to BIOS, the nervous system of your notebook, and how to change its fundamental settings.

There is no need to read the manual from the beginning to end. Simply find your way to the section that interests you using the table of contents, or browse through the manual.

You will come across the following icons in this manual:



*Helpful pointers and tricks to get more from your notebook*



*To help you note and avoid possible damage to your notebook's hardware or software, or loss of your work*



*Points out possible damage to property, personal injury or death*

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## Safety Instructions

Use the following safety guidelines to help protect yourself and your notebook.

### **General Warnings**

- Do not operate your portable computer for an extended period of time with the base resting directly on your body. With extended operation, heat can potentially build up in the base. Allowing sustained contact with the skin could cause discomfort or, eventually, a burn.
- Do not attempt to service the computer yourself. Always follow installation instructions closely.
- To avoid personal injury from electric shock or fire:
  - Completely power down the computer when replacing memory modules, cleaning the computer, its components, or chassis, or performing operations requiring similar steps. To do this, first turn the power off at the power switch, remove the battery, and then disconnect the AC adapter from the electrical outlet or from any other type of external power source, such as an external battery.
  - Do not operate the computer near water, for example, near a bathtub, kitchen sink or laundry tub, in a wet basement, by a swimming pool, or in the rain.
  - Do not connect or disconnect any cables or perform maintenance or reconfiguration of this product during an electrical storm.
  - Avoid using the wired modem or LAN during an electrical storm, as a remote risk of electric shock from lightning exists.
  - Do not push objects into the air vents or openings of your notebook or accessories. Doing so can short out interior components and may cause fire or electric shock.
  - When installing memory modules, ground yourself by touching a grounded conductive surface, such as a device with a grounded plug. Avoid touching the pins and leads on the memory module or internal circuitry of the computer.
- When setting up the computer for work, place it on a level surface.
- Handle components with care. Hold a component such as a memory module by its edges, not its pins.
- If the battery pack leaks and the fluid get in your eyes, do not rub them. Instead, rinse your eyes with clean running water and immediately seek medical attention. Otherwise, eye injury may be resulted.

- If acid leaking from the battery pack contacts your skin or clothing, immediately wash it away with the running water. Otherwise, the skin inflammation may occur.
- Operate the computer at the recommended temperature range of +5°C to +35°C (+41°F to +95°F). Store it at a temperature of -20°C to +60°C (+4°F to +140°F).
- Your notebook shipped with the plastic dummies installed in PCMCIA or Express slot. Dummies protect unused slots from dust, metal object, or other particles. Save the dummy for use when no PCMCIA or Express Card is installed in the slot.

### **Power Cord & Adapter Warnings**

- See the installation instructions before connecting to the power supply.
- Use only the power cord indicated in this manual.
- Power cord sets for use in other countries must meet the requirements of that country. Use the appropriate AC adapter and power cord for your locale.
- If you use an extension cord with your AC adapter, ensure that the total ampere rating of the products plugged into the extension cord does not exceed the ampere rating of the extension cable.
- When using your power cord, make sure to position it around objects so it will not be cut or punctured.
- When you disconnect a cable, pull on its connector on its strain relief loop, not on the cable itself. As you pull out the connector, keep it evenly aligned to avoid bending any connector pins. Also, before you connect a cable make sure both connectors are correctly oriented and aligned.
- Be sure that nothing rests on your AC adapter's power cable and that the cable is not located where it can be tripped over or stepped on.
- Use only the AC adapters that are approved for use with this computer. Use of another type of adapter may risk fire or explosion.
- Before you connect the computer to a power source, ensure that the voltage rating of the AC adapter matches that of the available power source.
  - 115 V/60 Hz in most of North and South America and some Far Eastern countries such as South Korea and Taiwan.
  - 100 V/50 Hz in eastern Japan and 100 V/60Hz in western Japan.
  - 230 V/50 Hz in most of Europe, the Middle East, and the Far East.
  - If you use an extension cable with your AC adapter, ensure that the total ampere rating of the products plugged in to the extension cable does not exceed the ampere rating of the extension cable.

- Place the AC adapter in a ventilated area, such as a desktop or on the floor, when you use it to run the computer or to charge the battery. Do not cover the AC adapter with papers or other items that will be reduced to cool; also, do not use the AC adapter while it is inside a carrying case.
- Disconnect power cords and cables by grasping the connector, not by pulling on the cable itself. As you pull out the connector, keep it evenly aligned to avoid bending any connector pins. Before you connect a cable, please make sure both connectors are correctly aligned.
- To remove power from the computer, turn it off, remove the battery, and disconnect the AC adapter from the electrical outlet.

### ***Battery Pack Warnings***

- Do not carry a battery in your pocket, purse, or other container where metal objects (such as car keys) could short-circuit the battery terminals. The resulting excessive current flow can cause extremely high temperatures and may result in damage from burns.
- Danger of explosion may occur if battery is incorrectly replaced. Replace only with the same or equivalent type battery recommended by the manufacturer.
- Do not dispose of batteries in a fire. They may explode. Check with local authorities for disposal instructions.
- Do not use or leave the battery pack near a heat source. Heat can melt the insulation and damage other safety features, possibly leading it to leak acid, overheat, emit smoke, burst and/or ignite.
- Do not immerse the battery pack in water or allow it to get wet. Its protective features can be damaged. Abnormal chemical reactions may occur, possibly leading it to leak acid, overheat, emit smoke, burst and/or ignite.
- Do not crush, disassemble, puncture, or incinerate the short external contacts of a battery pack.
- Do not connect the positive (+) and negative (-) terminals with a metal object such as wire. Short-circuiting may occur leading the battery pack to leak acid, overheat, emit smoke, burst and/or ignite.
- Do not use an apparently deformed or damaged battery pack, which may leak acid, overheat, emit smoke, burst and/or ignite.
- If the battery pack leaks, gives off a bad odor, generates heat, becomes discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the computer or charger and stop using it.

### ***Battery Pack Disposal***

- Dispose of the lithium ion battery packs at approved disposal sites only. To locate an appropriate site, contact the solid waste disposal officials where you live or look for a rechargeable battery recycling website that lists disposal locations near you.
- Do not dispose of battery packs in a fire, throw them in a trash receptacle, put them in a recycling bin not intended for their disposal, or otherwise discard them in a manner that may result in their being hazardous to the environment.

### ***Internal Modem Warnings***

**CAUTION:** When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- The modem cable you connect to your notebook should have a minimum wire size of 26 AWG (American wire gauge) and an UL-compliant RJ-11 modular plug.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- Do not plug a modem connector (RJ-11) into a network connection (RJ-45). This may damage the connector.

## Modem Regulatory Notice

### Federal Communication Commission PART 68 Warning

This equipment complies with Part 68 of the FCC rules. Located on the bottom side of the modem is a label that contains, among other information, the FCC Registration Number and Ringer Equipment Number (REN) for this equipment. Upon request, you must provide this information to your telephone company.

If your telephone equipment damages the telephone network, the local telephone company may temporarily discontinue your service. If possible they will notify you in advance. But, if advance notice is not practical, you will be notified as soon as possible. You will also be informed of your right to file a complaint with the FCC.

Your telephone company may make changes to facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If this equipment should fail to operate properly, disconnect the equipment from the phone line to determine if it is causing the problem. If the problem is with the equipment, discontinue use and contact your dealer or vendor.

### **TBR21**

This equipment has been approved [Council Decision 98/482/EC – “TBR21”] for pan-European single terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, in itself, give an unconditional assurance of successful operation on every PSTN termination point. In the event of problems, you should contact your equipment supplier in the first instance.

## Important Safety Instructions

Read these instructions carefully and save them for reference in future.

1. Follow all warnings and instructions reminded you about this product.
2. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
3. Do not use this product near water.
4. Do not place this product on an unstable cart, stand, or table. It may be broken to cause some serious damage of itself.
5. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, and also do not block or cover these openings. Avoid placing the product on a bed, sofa, rug, or similar surface to prevent from blocking these openings. This product should never be placed near or over a radiator or a heat register, or in an enclosure unless proper ventilation is provided.
6. This product should be operated from the type of power indicated on the marking label. If you are not sure the type of power available, consult your dealer or local power company.
7. Do not allow anything to rest on the power cord. Do not locate this product where people will step on the cord.
8. If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.
10. Do not attempt to service this product by yourself. As opening or removing covers, you will be exposed to the dangerous voltages or other risks. Refer all servicing to qualified service personnel.
11. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. As liquid is spilled into the product.
  - c. The product is exposed to rain or water.
  - d. If the product does not operate normally when the operating instructions are followed, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and

will often require extensive work by a qualified technician to restore the product to normal condition.

- e. The product has been dropped or the cabinet has been damaged.
- f. The product exhibits a distinct change in performance, indicating a need for service.

### **EMC Regulatory Information**

This product is designed and tested to comply with the following related EMC (Electromagnetic compatibility) standards.

### **FCC Notice**

#### **“Declaration of Conformity Information”**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy .If the equipment is not installed or used in accordance with the instructions; it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### **Canadian Notice (Canada Only)**

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### **Norwegian Notice (Norway Only)**

For Class I equipment: In Norway, it intend to be connected to CABLE DISTRIBUTION SYSTEMS, the screen of a coax cable is required to be galvanic isolated from the protective earth. The Norwegian text is that “Må kun tilkoples kabel-TV nett via galvanisk isolator.”

### **CE Notice (European Union)**

#### **EU Declaration of Conformity**

The product conforms to the following standards:

Supplementary Information: “The product complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and/or the R&TTE Directive 1999/05/EEC.”



This product is carrying the CE-Mark in accordance with the related European Directives.

### **BSMI Notice (Taiwan Only)**

Most Compal computer products are classified by the Bureau of Standards, Meteorology and Inspection (BSMI) as Class B information technology equipment (ITE).



R 31199

This (marked on the product) indicates the product complies with the BSMI standard.

## BSMI 通告 (僅限於台灣地區)

如果您在電腦的底部、側面或背面板上找到一個



標誌，則適用於以下部份

的相關規定：

此設備經測試證明符合BSMI(經濟部標準檢驗局)之乙類數位裝置的限定規定。這些限制的目的是為了在住宅區安裝時，能防止有害的干擾，提供合理的保護。此設備會產生，使用並散發射頻能量；如果未遵照製造廠商的指導手冊來安裝和使用，可能會干擾無線電通訊。但是，這並不保證在個別的安裝中不會產生干擾。您可以透過關閉和開啓此設備來判斷它是否會對廣播和電視收訊造成干擾；如果確實如此，我們建議您嘗試以下列一種或多種方法來排除干擾：

- 重新調整天線的接收方向或重新放置接收天線。
- 增加設備與接收器的距離。
- 將設備連接至不同的插座，使設備與接收器連接在不同的電路上。
- 請向經銷商或有經驗的無線電/電視技術人員查詢，以獲得幫助。

### Safety of TV Tuner

Note to CATV System Installer - This reminder is provided to call the CATV systems installer's attention to Section 820-93 of the National Electric Code which provide guidelines for proper grounding and, in particular, specify that the Coaxial cable shield be connected to the grounding system of the building as close to the point of cable entry as practical.

## Specifications

### CPU

- Intel Mobile Penryn, Dual core processor; 2.26/2.4/2.53/2.8GHz 1066MHz FSB, 3MB/6MB L2 cache.

### Chipset

- Intel PM45 (667/800/1066 MHz FSB supported).
- ENE KB926 for Keyboard Controller.
- ICH9-M.
- JMicron JMB385 for 3 in 1 controller.
- External VGA card for PM45.
- Realtek ALC268 for High Definition Audio Codec.
- Realtek RTL8111C for Giga LAN.

### Memory

- On board with two 200-pin +1.8V DDRII SO-DIMM connector, supporting, DDR II 667/800 SDRAM memory interface design, 0MB DDR RAM on board, Two DDR SODIMM slots Maximum memory: 2GB per slot. 4GB total
- 3/6MB L2 Cache on CPU.
- Support 512MB VGA memory for MXM II
- VRAM: GDDR2 512MB

### Display

- Supports 15.4 TFT/WXGA (1280 x 800) TFT color LCD
- Supports 15.4 TFT/WXGA+ (1440 x 900) TFT color LCD
- Supports 15.4 TFT/WSXG+ (1680 x 1050) TFT color LCD

### Camera

- 2.0M CMOS module, fix-focus, camera module

### Keyboard

- 87-US/88-UK Keys with 101/102 key emulation; 12 function keys; 4 cursor keys.
- Windows key; Application keys, 19.05mm pitch, 2.5±0.15mm stroke, H=5.1mm

## **Hard Disk Drive (HDD)**

- SATA
- 9.5mm, 2.5" HDD Support with 80GB/120GB/160GB/250GB
- 5400/7200 RPM

## **Optical Disc Drive (ODD)**

- 12.7mmh, Combo Drive
- 12.7mmh, DVD Super Multi Drive
- 12.7mmh, BD Drive

## **Pointing Device**

- Touch Pad

## **I/O Ports**

- 3 USB Jack
- 15 pins VGA; RGB port
- Microphone-in jack
- Headphone-out jack
- DC-in jack for AC Adapter
- MODEM port w/ RJ-11 connector
- LAN port w/RJ- 45 connector
- Express Card
- Kensington lock
- HDMI
- RF in
- S-Video in

## **WLAN**

- Express base specification compliant
- 802.11 a/b/g/n: Intel WLAN card

## **Modem**

- Internal Modem with MDC solution (MDC 3.3/1.5)

## **Bluetooth**

- Bluetooth V2.0/2.1+EDR

## **Mini Card Organization**

- One Mini card for WLAN
- One Mini card for TV-Turn
- One Mini card for Robson

## **NEWCARD**

- One Single-Wide New Card socket
- Supports both Express Card and USB2.0 Card

## **Excellent Power Management Function**

- Suspend to RAM or Suspend to Disk mode, by time out or by hot key
- HDD Local Standby mode by time out
- LCD Local Standby mode by time out
- Low battery alarm by beep
- Auto-backlight off when LCD cover closed
- Full ACPI 1.0B supported
- LCD Auto-DIM mode by time out

## **Easy Buttons**

- Power button
- Power USB Button
- Smart Key Button
- WOW Audio Button
- WOW Video Button

## **AC Adapter**

- Universal AC adapter. 100-240V AC, 50-60HZ
- 90W/19V DC Output
- 3 pin type for AC-IN

## **Memory Card & SO-DOMM Socket**

- 3-in-1 Card Reader (SD, MMC, MS)
- Push-push type, with dummy card
- JMB385 Card Reader controller

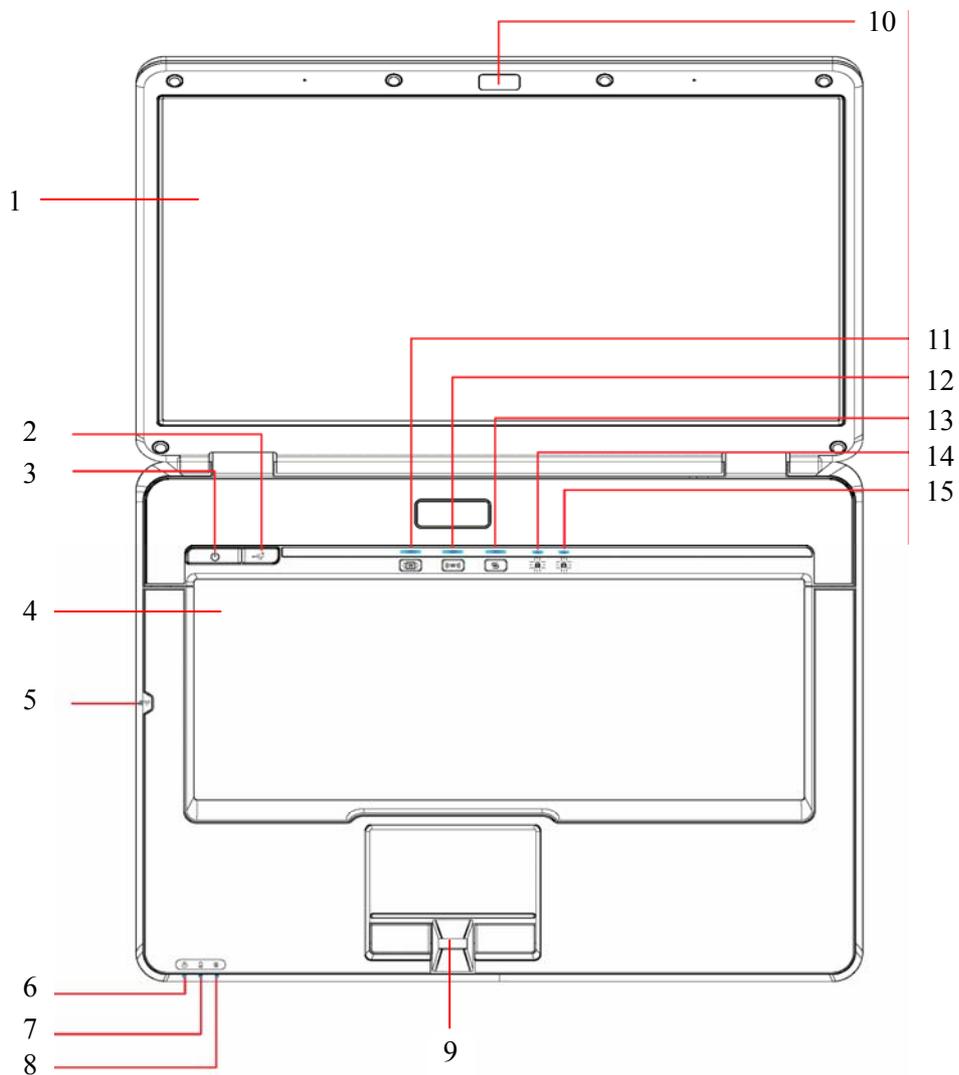
## **Options**

- 512MB/1024MB/2048MB SO-DIMM modules
- MINI Card Wireless LAN module
- MDC Modem module
- Bluetooth module
- Dual-Band builds in Antenna for Wireless LAN Communication

**Chapter 1**  
**Introducing Your Notebook**

## 1.1 Front Side

The following picture shows the front side of your notebook.



1	Display	9	Finger Print
2	Power USB Button	10	Camera
3	Power Button	11	WOW Video Button
4	Keyboard	12	WOW Audio Button
5	Bluetooth/Wireless switch	13	Smart Key Button
6	Power LED	14	Num Lock LED
7	Battery LED	15	Caps Lock LED
8	HDD LED		

### 1.1.1 Display

Your display is either a 15.4" COLOR TFT WXGA, WXGA+, or WSXGA+ LCD.

### 1.1.2 Power USB Button



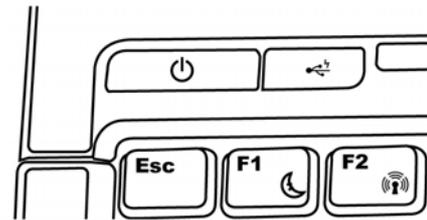
The laptop is equipped with a power USB function, which allows you to increase the power output when charging an external USB device, such as a mobile phone or PDA.

You can charge external USB devices with power cable connected when the laptop is powered off, but this button must be pressed in order to do so.

### 1.1.3 Power Buttons



Press to turn your notebook on. For more on power settings, see **6.1 Power Management (Vista)**.



*Windows Vista, which comes preinstalled, goes into the shutdown sequence automatically if you press the power button while on.*

*In Windows Vista, you can configure this in Control Panel > System and Maintenance or Hardware and Sound > Power Options > Change plan settings > Change advanced power settings.*

### 1.1.4 Keyboard

The keyboard includes a numeric keypad and the Microsoft® Windows® logo key. See **2.3 Keyboard and Touch Pad (Vista)** for details on using keyboard shortcuts.

### 1.1.5 Bluetooth/Wireless Switch

The following is two state of kill switch

1: kill switch On:

When users press Fn+F2, AP will be showed. At this time, User can turn on/off which Wireless LAN and Bluetooth.

2: kill switch Off:

In this status, when users press Fn+F2, AP will be show user that can not turn on Wireless LAN and Bluetooth.

### 1.1.6 Power LED (Blue)

Power LED and Suspend LED indicate the systems power states by user combinations

### 1.1.7 Battery LED (Blue/Amber) ( )

Battery states LED is one dual-color LED indicator both of Blue and Amber color.

### 1.1.8 HDD accessing state Blue LED ( )

Reflect the activities of Blue Led.

Note: LED is controlled directly by hardware.

### 1.1.9 Finger Print

The left and right touch pad buttons perform the same functions as the left/right buttons of a standard mouse.

### 1.1.10 Camera

The built-in camera supports a2.0 mega pixel CMOS web camera.

### 1.1.11 WOW Video Button

WOW Video is a setting assortment for audio conditions preset in Tone, Bass, Balance and Volume.

LED (Blue color) blinking once while pressing WOW Video Button.

### 1.1.12 WOW Audio Button

WOW Audio is a setting assortment for Video conditions preset in color Defines.

LED (Blue color) blinking once while pressing WOW Audio Button.

### 1.1.13 Smart Key Button

LED(Blue color) blinking once while pressing Smart Key Button.

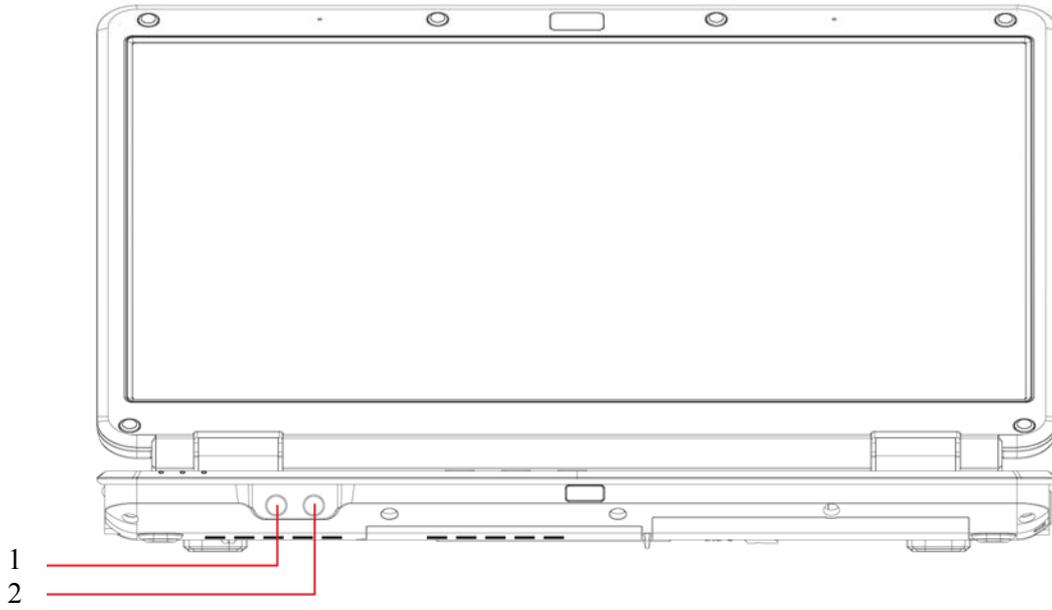
### 1.1.14 Num Lock LED (Blue)

Number Lock LED (Blue): Number Lock State of Keyboard.

### 1.1.15 Caps Lock LED (Blue)

Caps lock LED (Blue): Caps Lock State of Keyboard

NOTE: In normal mode (Cursor and Num function are disable), when users press Hot Key, the Cursor LED will be on. When users press Hot Key, the Cursor LED will be off.

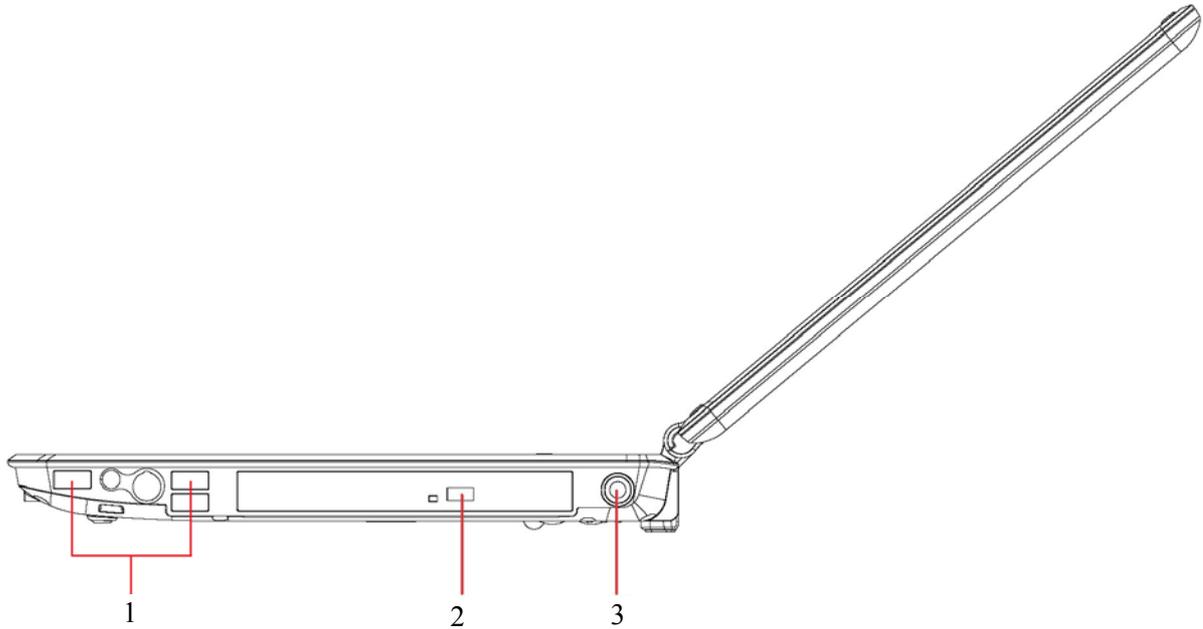


The flashing Power On LED indicates your notebook is in standby mode.

1	Microphone Jack
2	Headphone Jack

## 1.2 Right Side

The following picture shows the right side of your notebook.



1	Power USB Ports
2	Optical Disc Drive
3	AC Adapter Connector

### 1.2.1 Power USB Port



When you press Power USB button under off mode, you can charge external USB devices with power cable connected.



*USB is a peripheral expansion standard that supports data-transfer rates up to 480 Mbps. USB peripherals have a single standard for cables and connectors. You can install and remove USB devices while the computer is on. This is called “hot swapping”.*

### 1.2.2 RF in & S-video in

S-Video, as most commonly implemented, carries 480i or 576i resolution video, i.e. standard definition video, but does not carry audio on the same cable.

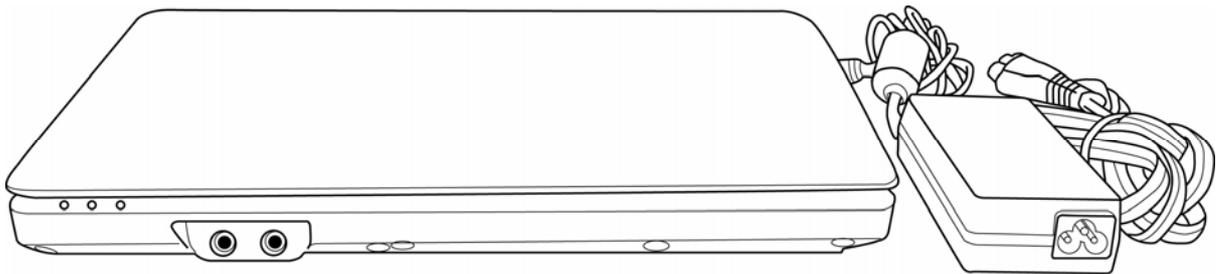
### 1.2.3 Optical Disc Drive

The optical disc drive provides a means for you to import/export data into/from your notebook. Depending on the configuration of your notebook, you may either be able to record or play CDs/DVDs.

### 1.2.4 AC Adapter Connector



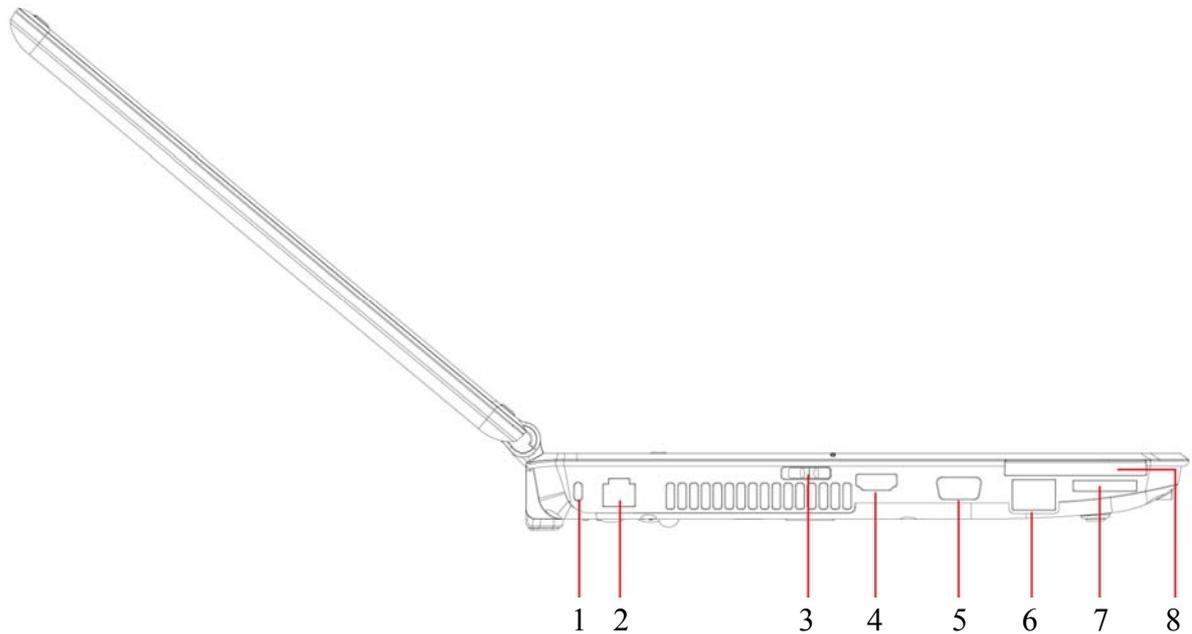
Use this connector to attach the AC adapter to your notebook. You can connect an AC adapter when your notebook is switched on or off.



*While the AC adapter works with electrical outlets worldwide, power connectors and power strips vary by country. Ensure you use a compatible cable or correctly connect the cable to the power strip or electrical outlet. Failure to do so may cause fire or damage to equipment.*

## 1.3 Left Side

The following picture shows the left side of your notebook.



1	Kensington Lock
2	Modem Jack
3	Wireless Kill switch (Wireless Switch ON/OFF)
4	HDMI Port
5	VGA Port
6	RJ-45 LAN Jack
7	3-1 Card Reader
8	Express Card

### 1.3.1 Kensington Lock

A Kensington Security Slot is a small, metal-reinforced hole found on almost all small or portable computer and electronics equipment, particularly on expensive and/or relatively light ones, such as laptops, computer monitors, desktop computers, gaming consoles, and video projectors. It is used for attaching a lock-and-cable apparatus, in particular those from Kensington.

### 1.3.2 Modem Jack (RJ-11)



The modem jack allows you to connect your notebook to a telephone line with a standard RJ-11 connector.

### 1.3.3 Wireless Kill switch

The Wireless Switch Suppliers B2B online marketplace.

### 1.3.4 HDMI Port

The High-Definition Multimedia Interface (HDMI) is a compact audio/video connector interface for transmitting uncompressed digital streams. It represents a digital alternative to consumer analog standards such as Radio Frequency (RF) coaxial cable, composite video, S-Video, SCART, component video, D-Terminal, and VGA.

### 1.3.5 VGA Port



Use this port to connect an external monitor to your computer.

### 1.3.6 LAN Jack



The RJ-45 network jack allows you to connect your notebook to a local area network (LAN).



*Be careful not to plug the telephone line into the slightly larger network connector.*

### 1.3.7 3-1 Card Reader

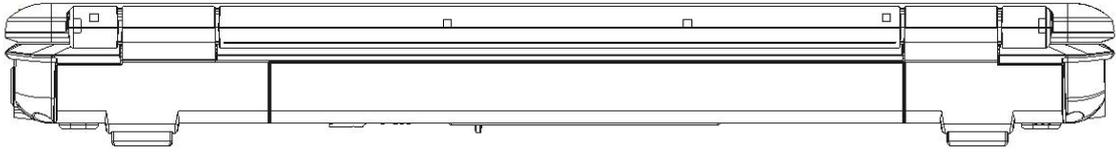
Supports one SD/MMC/MS pro card, which is used in digital still camera and various forms of portable information equipment.

### 1.3.8 Express Card

Supports 34/54 mm type Express Card. For more information, see **5.1 Express Cards**.

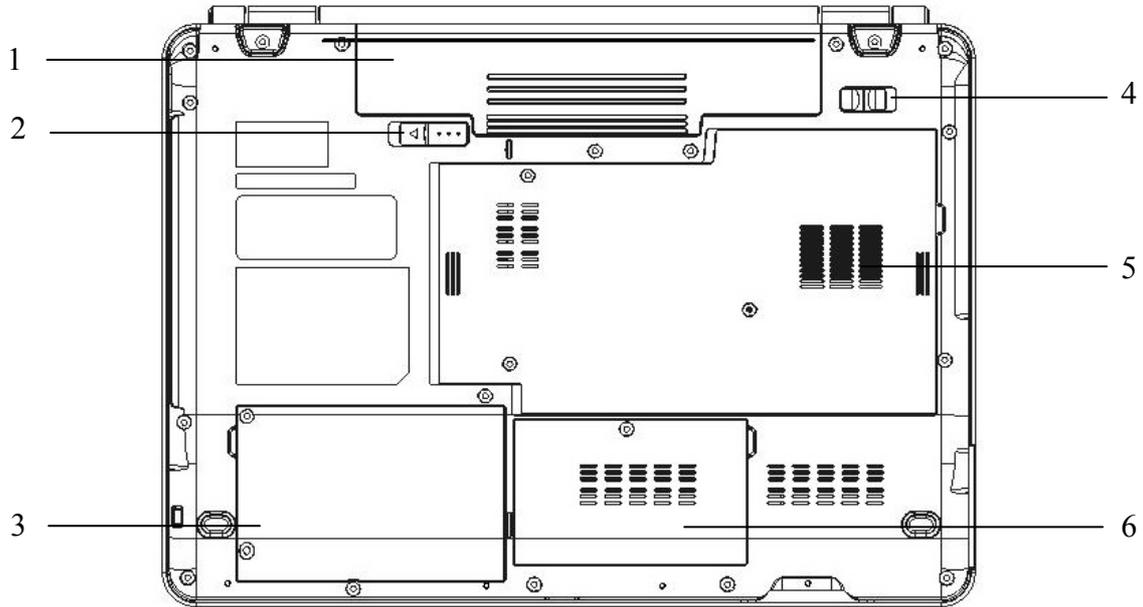
## 1.4 Rear Side

The following picture shows the rear side of your notebook.



## 1.5 Bottom Side

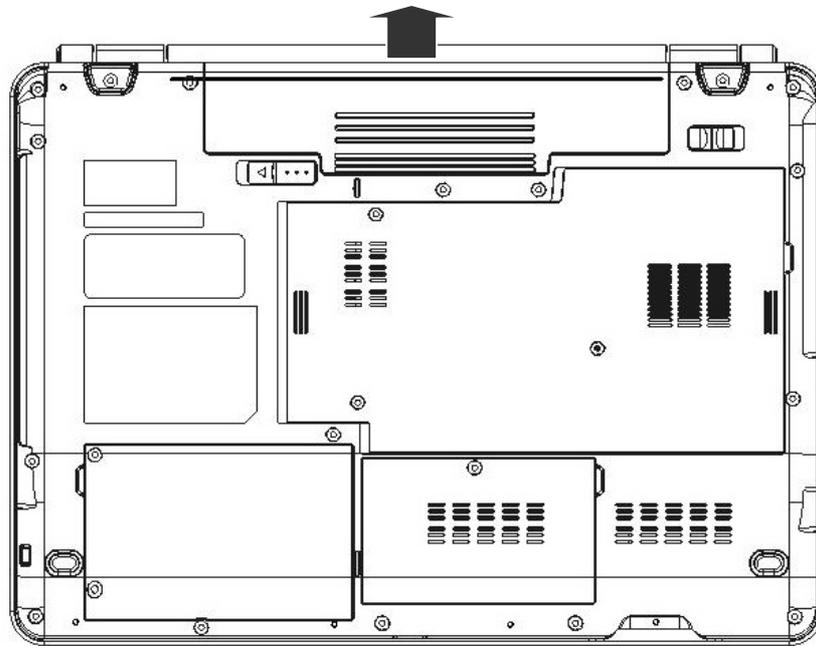
The following picture shows the bottom side of your notebook.



1	Battery Pack
2	Battery Release Latch
3	HDD Cover
4	Battery Lock Switch
5	Thermal Cover
6	Memory Module Cover

### 1.5.1 Battery Pack

With a charged battery pack installed, you can use your notebook without connecting it to an electrical outlet. For more details, see **6.3 Battery (Vista)**.



#### **To remove the Battery Pack:**

1. Move the Battery Lock Switch to the right (Unlock position).
2. Slide the Battery Release Latch to the left and gently pry the Battery Pack from the computer chassis.

### 1.5.2 Battery Release Latch

The Battery Release Latch secures the battery pack. To release, slide the latch and then remove the battery pack from the bay.

# **Chapter 2**

## **Operating Your Notebook (Vista)**

## 2.1 Turning Your Notebook On and Off

- Turning Your Notebook On
- Turning Your Notebook Off
- Logging Off
- Adding User Accounts
- Sleep Mode

### 2.1.1 Turning Your Notebook On



*You can configure the computer to start from a specific drive, such as a CD-ROM, an external floppy disk, or even an external device. See 7.5 **The Boot Menu**.*

Press the power button  to turn on your notebook.



*Do not turn off the computer until the operating system has loaded completely. Turning the computer off during its initial startup will result in an error the next time you start your notebook.*

### 2.1.2 Turning Your Notebook Off

Save and close any open files, exit any open programs.

Click **Start** >  > **Shut Down**.

Your notebook will automatically turn off after the shutdown process is finished.



*Press the power button to shut down or enter sleep mode. Click **Start** > **Control Panel** > **Power Options** > **Choose what the power button does**.*

### 2.1.3 Logging Off

With Microsoft Windows Vista, multiple users have access to a single computer with their own personal settings. Using their own password, each user can log on to the computer which using their own private profile and settings.

To log off:

Save and close any open files, exit any open programs, click **Start** >  > **Log Off**.

To switch users:

Click **Start** >  > **Switch User**.

Using **Fast User Switching**, programs executed by previous users remain running in the background. This means a possible slower computer response. It may also stop multimedia programs, including games and DVD software, from running.



***Fast User Switching** does not work if your notebook is running Windows Vista and is a member of a computer domain or if your notebook has less than 128 MB of memory.*

### 2.1.4 Adding User Accounts



*Different account options are available when a computer is running Windows Vista operating system and is connected to a domain.*

With Windows Vista installed, the system administrator or a user with administrator rights can create additional user accounts:

1. Click **Start > Control Panel > User Accounts and Family Safety > User Accounts > Manage another account**.
2. When prompted, click **Continue**.
3. Click **Create a new account**.
4. Enter the name of the new user and choose one of the following options:
  - **Standard user:** User can install some programs and hardware.
  - **Administrator:** User can change all computer settings.
5. Click **Create Account**.

### 2.1.5 Sleep Mode

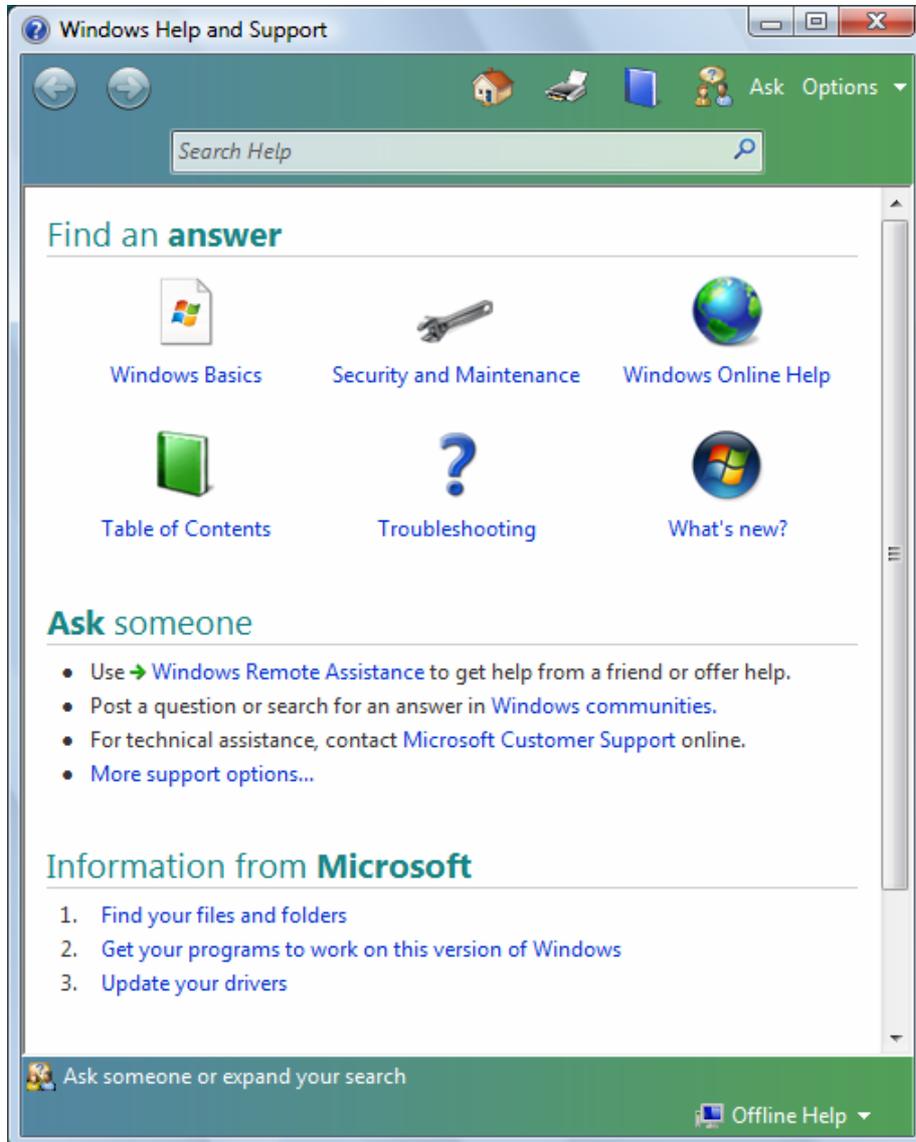
To find out how to conserve power using the Sleep Mode, see **6.1 Power Management**.

## 2.2 Tips for Using Windows

- Microsoft Windows Vista Help
- Windows Desktop
- Start Button
- Taskbar
- Notification Area (System Tray)
- Recycle Bin
- Control Panel
- Computer

### 2.2.1 Microsoft Windows Vista Help

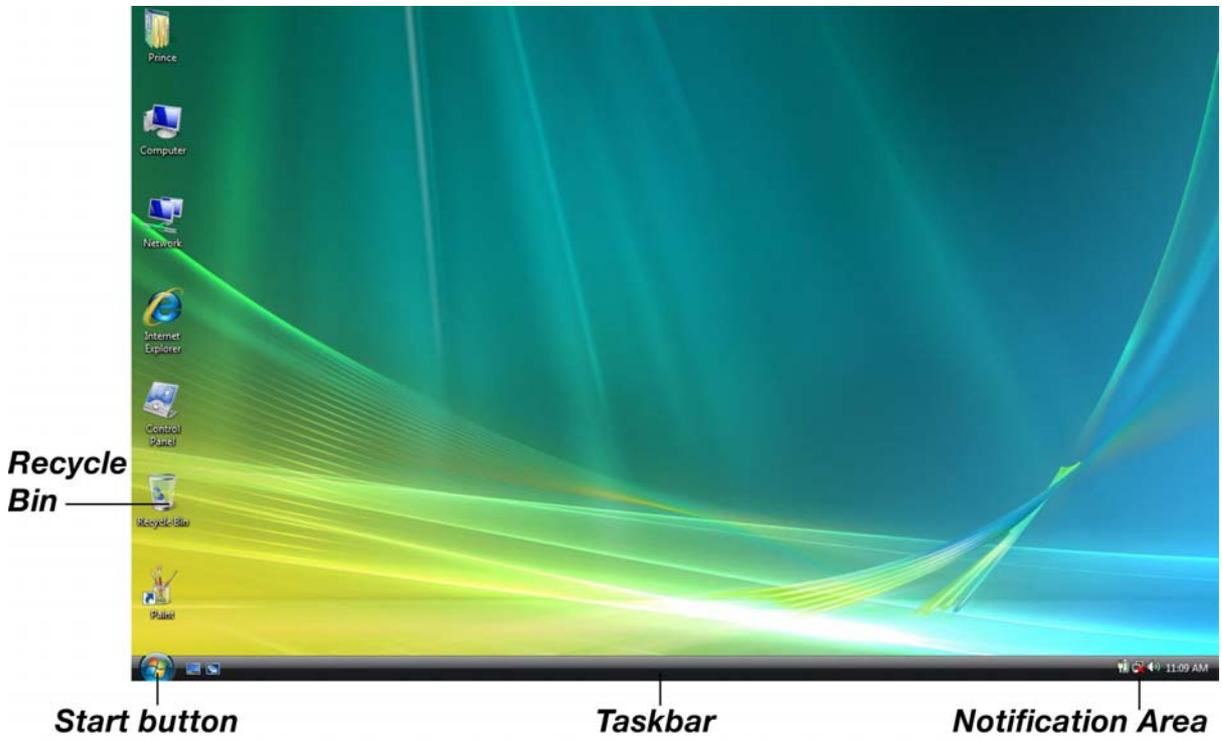
For Microsoft Windows Vista help, go to **Start > Help and Support**. The Windows Help and Support dialog box opens.



### 2.2.2 Windows Desktop

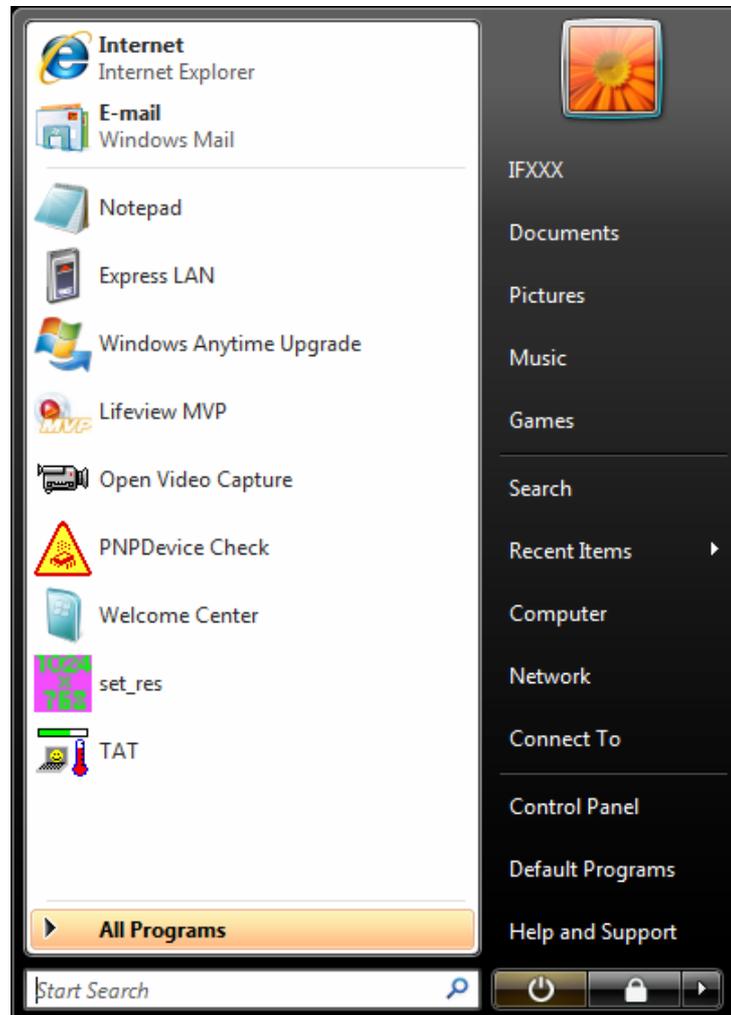


*Depending on your notebook setup and software, your desktop may have different or additional shortcuts. See **2.4 Personalizing Your Desktop** for more information.*



### 2.2.3 Start Button

The **Start** button allows easy access to your notebook's programs.



The **Start** menu is designed to adapt to show the programs you use most frequently. To always keep an item on the **Start** menu, no matter how often it's used, right-click the item and click **Pin to Start menu**.

 Puts the current session into memory and enters a low-power state ready to be resumed.

 Locks this computer

 provides options for turning off, restarting, switching users, logging off, and placing your notebook in power saving modes.

## 2.2.4 Taskbar

The **Start** button is on the left and the notification area on the right. Each time you open a program; a button for it appears on the taskbar. To move between programs, simply click the relevant button. Windows Vista groups multiple instances of the same program on a single taskbar button if more space is needed.

Toolbars can be added to or removed from the taskbar:

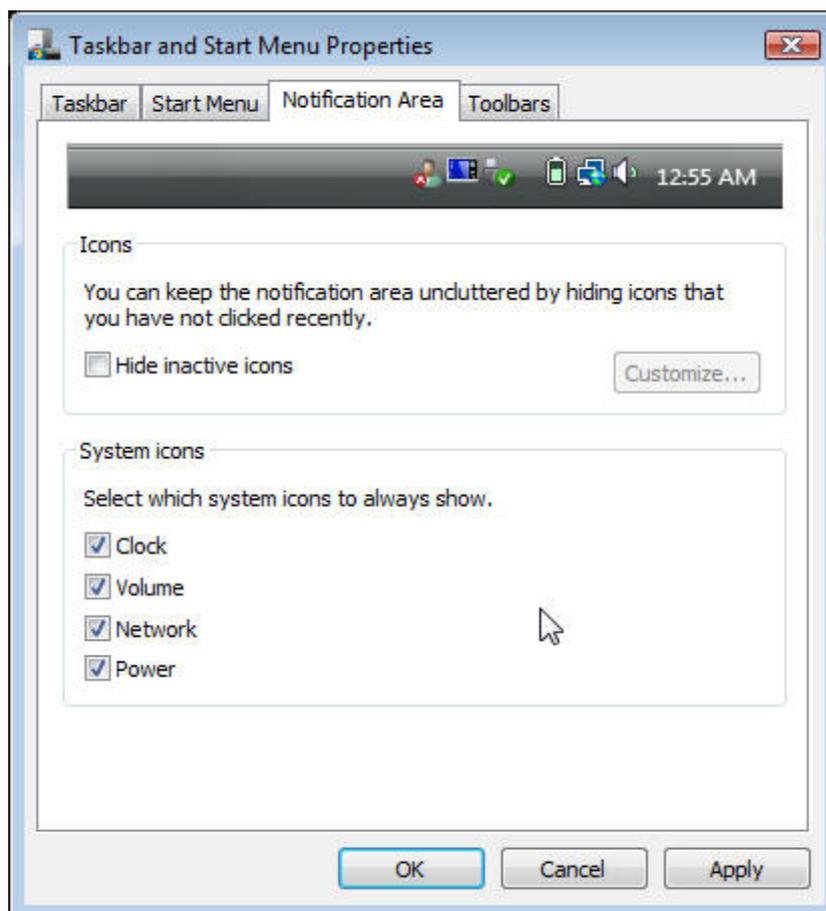
Right-click an empty spot on the taskbar, and select **Toolbars > choose the toolbar you want to add**.

## 2.2.5 Notification Area (System Tray)

The icons in this area allow quick access to programs and computer functions, including the clock and printer status. Windows Vista hides icons that are not frequently used. Click < to see hidden icons.

To prevent Windows Vista from hiding icons:

Right-click an empty spot on the **Taskbar > Properties > Notification Area > ensure that Hide inactive icons** is not checked.





## 2.2.6 Recycle Bin

### Recycle Bin

When you delete a file, it is moved to the **Recycle Bin**. Files can be restored from the **Recycle Bin**.

Emptying the **Recycle Bin** deletes files permanently.

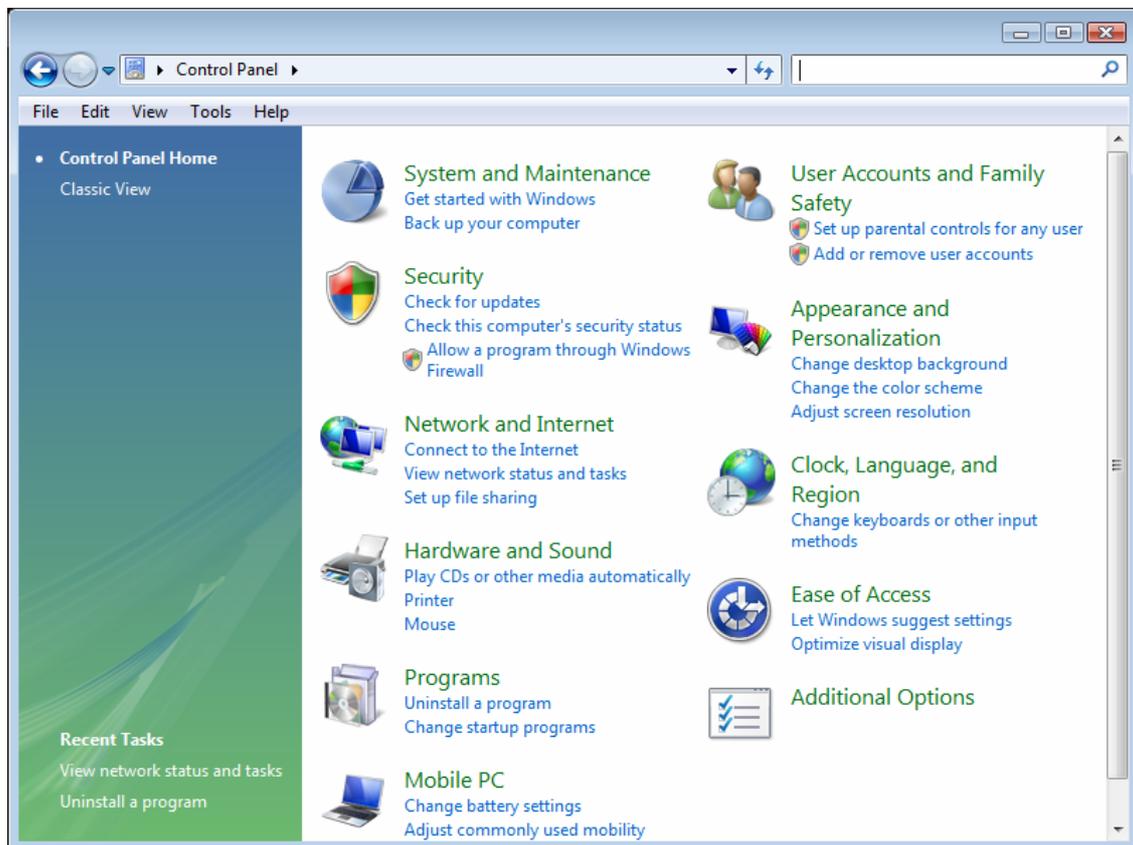
## 2.2.7 Control Panel

In the **Control Panel**, you can change how Windows looks and works.

Click the **Start** button and then **Control Panel**.

There are two interfaces - you can choose either **Control Panel Home** or **Classic View**. You can switch interfaces in the upper left hand of the **Control Panel** window.

Choose the task description you wish to complete, and then choose the task in the next window.



### 2.2.8 Computer

**Computer** allows you to see the disk drives and other external devices connected to your notebook. The **Computer** icon displays on your Desktop. To see the contents of a drive or folder, open **Computer** then double-click the icon of the drive or folder you want to view (for example, drive C).



*You can also use **Windows Explorer** to see the contents of your notebook and find files. To open **Windows Explorer**, right-click the **Start** button and click **Explore**. Find the drive or folder that you want to view. To find out more about **Computer** and **Windows Explorer**, see the **Windows Help and Support**.*

## 2.3 Keyboard and Touch Pad

- Numeric Keypad
- Keyboard Shortcuts
- Windows Logo Key Functions
- Sticky Keys
- Touch Pad
- Customizing the Touch Pad
- Finger Printer

### 2.3.1 Numeric Keypad

Keypad numbers and symbols are marked in blue on the lower right edge of the keypad keys.

To enable the numeric keypad, press .

The  indicator will light when the numeric lock is on.

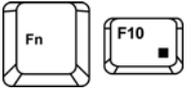
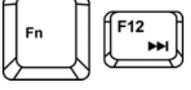
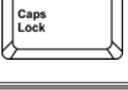
To disable the numeric keypad, press  again.

To use the primary function of a dual-function key when the numeric keypad is enabled,

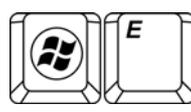
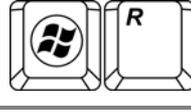
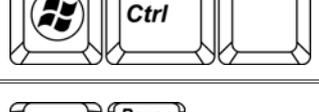
Press  and the desired key.

### 2.3.2 Keyboard Shortcuts

 	Sleep
 	Wireless/Bluetooth Turn On/Off To enable this function, you need to install Wireless Switch.
 	Switches Display Mode (LCD > CRT > TV > LCD + CRT Simultaneous > LCD+TV Simultaneous). Switches the video image to the next display or both displays simultaneously.
 	Brightness Down
 	Brightness Up
 	Mute
 	Audio Volume Down
 	Audio Volume Up
 	Play/Pause

	Stop
	Fast Rewind
	Fast Forward
	Number Lock
	Scroll Lock
	Caps Lock

### 2.3.3 Windows Logo Key Functions

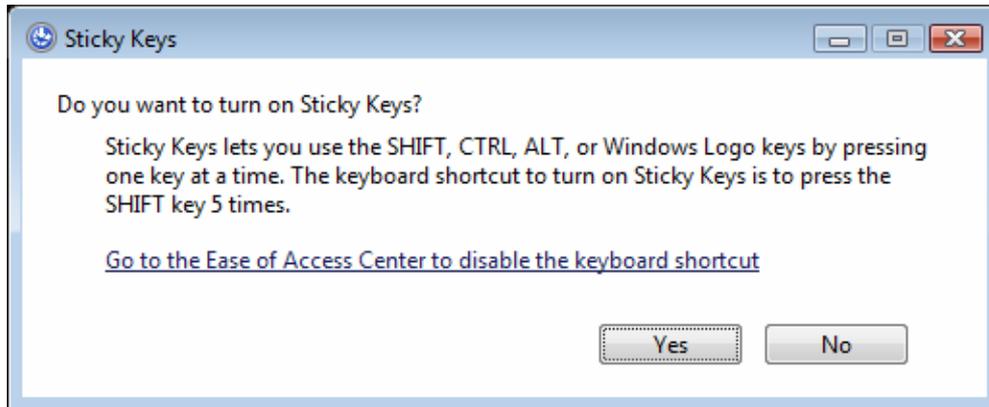
	Opens Windows Explorer
	Opens the Run dialog box
	Opens the Search Results dialog box
	Opens the Search Results - Computers dialog box (when your notebook is connected to a network)
	Opens the System Properties dialog box

To adjust keyboard operation, including character repeat rate, in the **Control Panel** click **Hardware and Sound > Keyboard**.

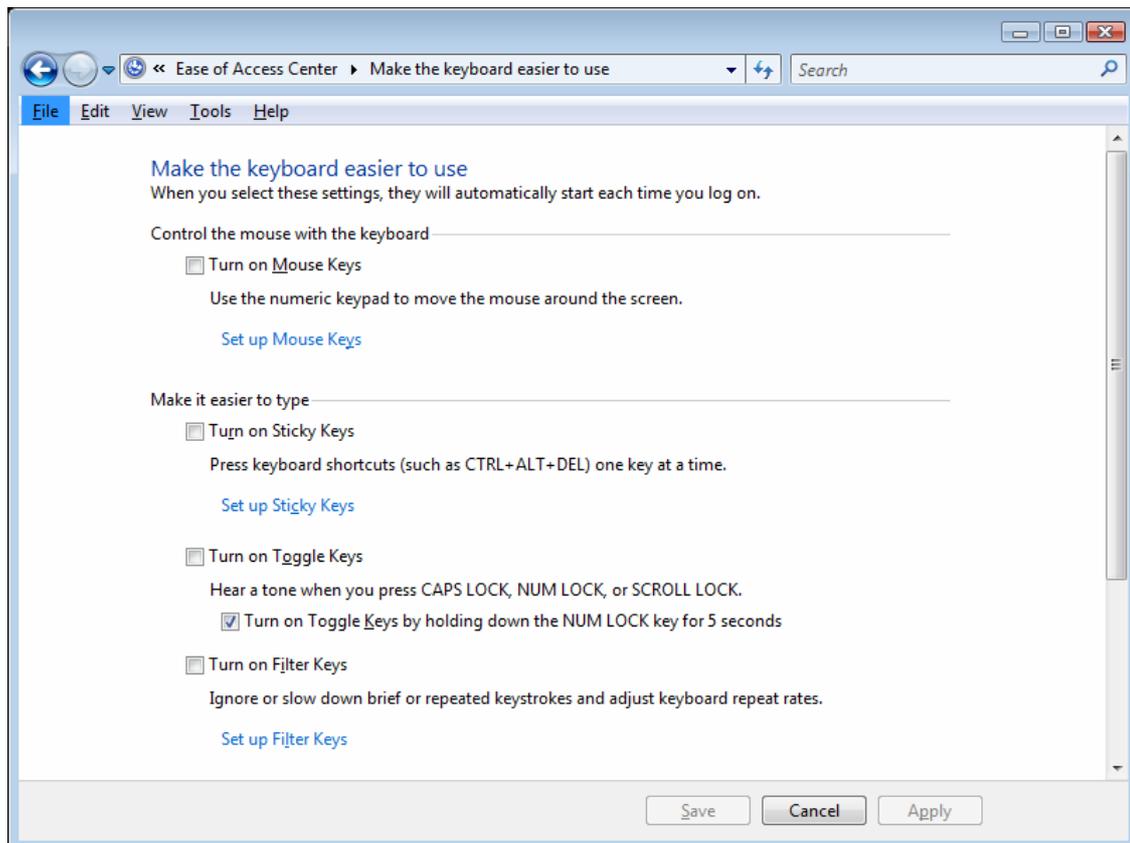
### 2.3.4 Sticky Keys

The Sticky Keys function lets you use the SHIFT, CTRL, ALT, FN keys or the Windows logo key (referred to as modifier keys) in conjunction with other keys by pressing one key at a time instead of simultaneously.

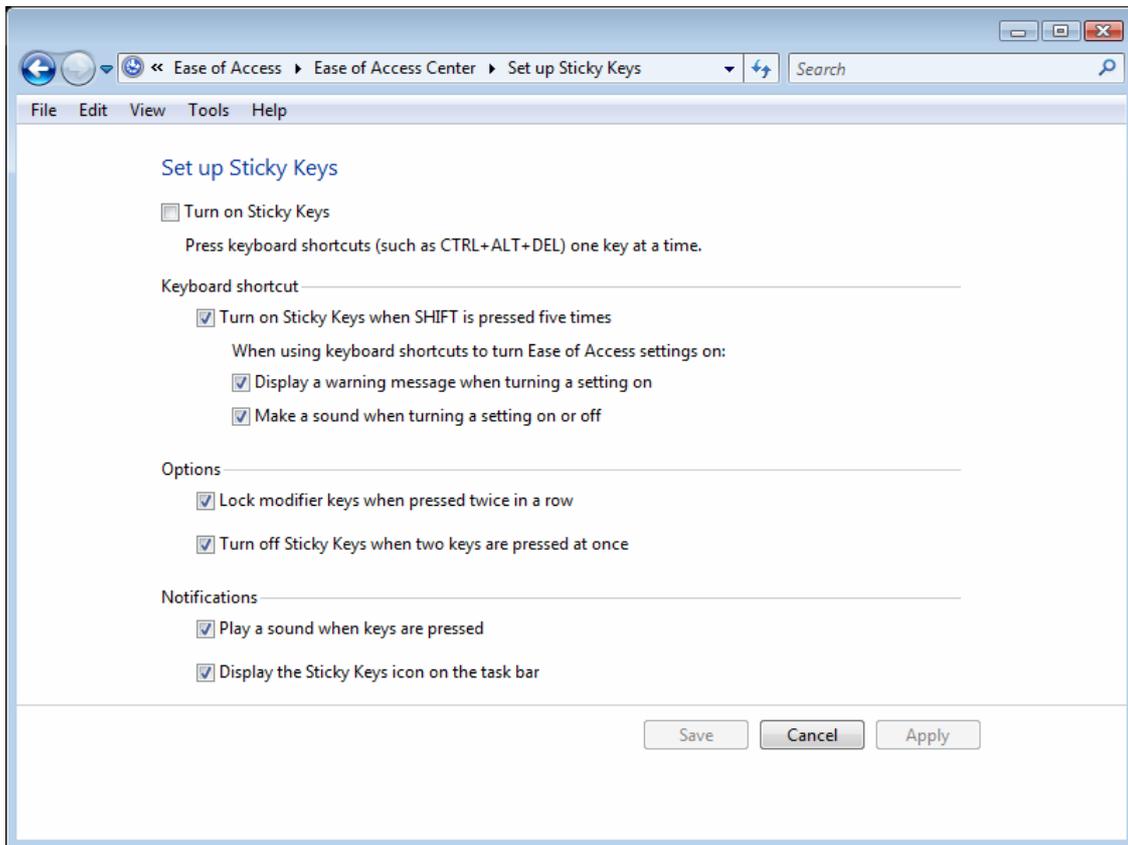
To activate Sticky Keys mode, press the Shift key five times and then click **YES**.



Alternatively, you can click on **Start > Control Panel > Ease of Access > Change how your keyboard works** and check **Turn on Sticky Keys** before clicking **Save**.



To further customize **Sticky Keys**, click **Set up Sticky Keys** in the above dialogue box. The following dialogue box will appear.



Click **Turn on Sticky Keys** to enable the listed shortcuts to activate Sticky Keys mode.

By checking **Lock modifier keys when pressed twice in a row**, pressing the **SHIFT**, **CTRL**, **ALT**, **FN** or the Windows logo key twice will ‘lock’ the key until it is pressed again. This allows you to perform multiple commands with these keys in succession without having to press the modifier key again each time.

Check **Turn off Sticky Keys when two keys are pressed at once** to have Sticky Keys automatically disable whenever any two keys are pressed simultaneously.

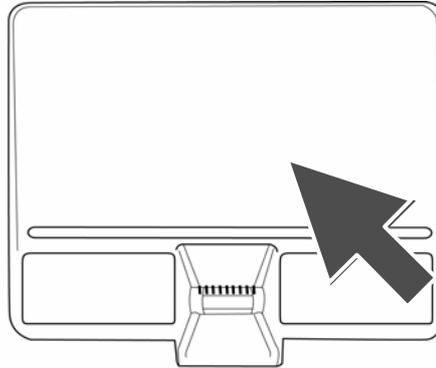
If **Play a sound when keys are pressed** is checked, a tone will be heard each time a modifier key is pressed. Different tones are heard when activating and deactivating modifier keys.

Check **Display the Sticky Keys icon on the task bar** to display the Sticky Keys icon in your toolbar whenever the Sticky Keys mode is activated. The icon will change to indicate which modifier key, if any, is currently active.

Click on **Save** to confirm your changes, **Cancel** to exit the dialogue box without making any changes, or **Apply** to have your settings take effect without saving.

### 2.3.5 Touch Pad

The Touch Pad responds to the movements and pressure of your finger, allowing you to move the cursor around the screen, in the same way you would with a mouse.



Place your fingers on the keyboard in the normal typing position.

You can use the Touch Pad by moving either your right or left thumb off the space bar and on to the Touch Pad.

Gently move your thumb across the Touch Pad in the direction you want the cursor to move.

The Touch Pad buttons have the same function as mouse buttons. Clicking these buttons to make selections, drags objects, or performs a variety of other functions depending on the software. To select an object, first move the pointer over the object you want to select, and then press the left button one time and release it. The functionality of these buttons depends on your software.

Double-clicking is a common technique for selecting objects or launching programs.

You may also select object or execute applications from the icons by double tapping. This is similar to double-clicking; instead of pressing the Touch Pad buttons, you tap the Touch Pad itself.

### 2.3.6 Customizing the Touch Pad

To adjust Touch Pad settings, use the Mouse Properties window, which you can open by clicking **Control Panel > Hardware and sound > Mouse**.

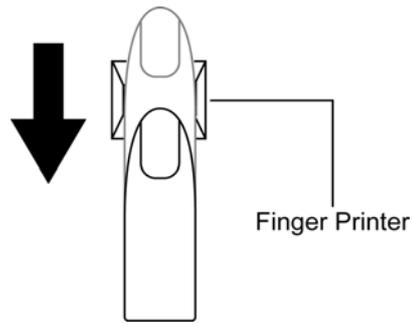
Select the desired settings and click **Apply**.

Click **OK** to save the settings and close the window.

### 2.3.7 Finger Printer

The finger printer lets you log on to your notebook instead of inputting passwords from the keyboard.

To raise the recognition success rate, the following illustrations show the correct way to swipe your finger over the finger printer.



Align your fingertip with the finger printer as shown in the drawing and swipe.

To reduce the damage to the finger printer and fingerprint recognition problems, follow these guidelines when using the finger printer.

- Do not scratch or poke the finger printer with your nails or any hard or sharp objects.
- Do not press the finger printer strongly.
- Do not touch the finger printer with a wet finger or any wet objects. Keep finger printer surface dry and free of water vapor.
- Do not touch the finger printer with a soiled finger. Minute foreign particles on a soiled or dirty finger may scratch the finger printer.
- Do not paste stickers or write on the finger printer.
- Do not touch the sensor with a finger or any object with built-up static electricity.

### **2.3.7.1 Delete the Finger Printer Data**

Save the fingerprint data is stored in the non-volatile memory inside the finger printer. The fingerprint data are recommended to delete before handing over the computer to the others or disposing of it.

To delete the fingerprint data, do the following:

1. Click **Start > All Programs > Protector Suite QL > Control**.
2. The **Protector Suite Software** screen is displayed.
3. Click **Fingerprints > Delete**.
4. Click **Settings > Fingerprint Storage Inspector**.
5. The **Fingerprint Storage Inspector** screen is displayed. If other fingerprint data is still displayed on the list. Select all fingerprint data and click **remove**.
6. Check whether all fingerprint data was deleted on the **Fingerprint Storage Inspector** screen.

## 2.4 Personalizing Your Desktop

- Choosing a Wallpaper
- Choosing a Screen Saver
- Choosing a Desktop Theme
- Creating a Shortcut on the Desktop

### 2.4.1 Choosing a Wallpaper

To make your notebook reflect your style, you can set background colors, patterns, and the wallpaper on the desktop.

**Control Panel > Appearance and Personalization > Change desktop background.**

Choose the picture or color you want for your desktop background.

You can also choose your own images by choosing **Browse**, and specifying images in a directory.

Under **How should the picture be positioned**, choose a way for the position of your selected image: **Fit to screen** (scales the image to fit the screen), **Tile**, or **Center** (places one copy of the image in the center of the screen).

To accept the settings, click **OK** to save your settings and close this window.

### 2.4.2 Choosing a Screen Saver

**Control Panel > Appearance and Personalization > Change screen saver.**

Select a screen saver from the Screen saver pull-down menu, or click **(None)** if you prefer not to activate a screen saver.

You can customize your screen saver by choosing **Settings**. To check your selections, choose **Preview**.

To accept the settings, click **OK** and close the **Screen Saver Settings** window.

### 2.4.3 Choosing a Desktop Theme

Desktop themes change the appearance of your desktop and add sound effects:

**Control Panel > Appearance and Personalization > Change the theme.**

Select a theme from the Theme pull-down menu in the **Theme Settings** Window, and then click **OK**.

### 2.4.4 Creating a Shortcut on the Desktop

A shortcut is an icon that is placed on the desktop let you quickly access programs, files, folders, and drivers. To create a shortcut:

Open **Computer** or **Windows Explorer**, and highlight the file or program you want to create a shortcut to.

Click and hold down the right Touch Pad button, drag the highlighted item to the Windows desktop, and then release the right Touch Pad button to display a pop-up menu.

Click **Create Shortcuts Here**.

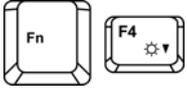
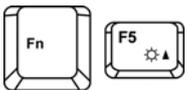
An icon appears on your desktop - double-click to activate the shortcut.

## 2.5 Display

- Adjusting the Brightness
- Using an External Monitor or Television
- Setting the Display Resolution

### 2.5.1 Adjusting the Brightness

To conserve power when running your notebook from the battery, set the brightness to the lowest comfortable setting using the keyboard shortcuts.

	Brightness Down
	Brightness Up

### 2.5.2 Using an External Monitor

When you start your notebook with an external display device such as an external monitor attached and turned on, the image may appear on either the display or the external device.

Alternatively, you can press  to switch the video image to the display only, the display and the external device simultaneously, or the external device only.

### 2.5.3 Setting the Display Resolution

To view a program at a specific resolution, both the video controller and display must support the program and the necessary video drivers must be installed.

Before changing any of the original display settings, note the original settings for future reference.

Click **Start > Control Panel > Appearance and Personalization > Adjust screen resolution**.

You can try different settings for screen resolution and color quality.

If you choose a resolution or color depth that is higher than the display supports, the settings will automatically adjust to the closest possible setting.

## 2.6 Networks

To access a network:

At the office, you can access a network via the built-in PCI-E LAN.

For specific information about connecting to the LAN or WAN, consult your systems administrator.

If you are working at home or while traveling, you need a dial-up connection. Ask your system administrator for the telephone number of the network.

To set up the connection, go to **Start > Control Panel > Network and Internet > Network and Sharing Center**. Click **Set up a connection or network** on the left pane of the Network and Sharing Center window.

Choose a connection option and follow the on-screen instructions to set up your network connection.

## 2.7 Managing Programs

- Running Programs
- Adding Software
- Removing Software

### 2.7.1 Running Programs

Programs are any software that process data - like a word processing program or an email program. They require an operating system - like Windows Vista - to run on.

To run a program, click **Start > All Programs**.

Click the program you want to run.

On the right side of the title bar in the window of any open program there are three icons:



 Minimize the program window. That is, it is removed from the screen, but is still running. It will appear as a button on your bottom taskbar. To restore the program window, simply click the button.

 Maximize the window to fill your entire screen. When the window is maximized, the button switches to , which will reduce the size of the window when clicked.

 Close the program or document.

### 2.7.2 Adding Software

To check what software is already installed on your notebook, click **Start > All Programs**. If a program is listed in the **All Programs** menu or the **Start** menu, the software is already installed.

Before installing software, check the software's technical requirements to ensure that it is compatible with your notebook and that there is enough memory and hard drive space for installation and operation.

Temporarily disable your notebook's antivirus software before installing software. See the documentation that came with the antivirus software for detailed procedure.



*Be sure to enable your antivirus software once you have installed any new software.*

Insert the software installation CD into the CD drive and follow the instructions that came with the software to help you respond to the prompts on the screen.

If the software installation CD does not automatically run, click **Start > All Programs > Accessories > Run**. In the dialogue box, type `x:\setup.exe` (where x is the letter of your CD drive [usually D or E]). Then click **OK** and follow the prompts on your screen.

### 2.7.3 Removing Software



*Once you've begun removing software, do not interrupt the process. To do so may result in data loss and corruption of your operating system.*

**Start > Control Panel > Programs > Uninstall a program.**

Select the program that you want to remove and click the **Uninstall** or **Change** button. Instructions for removing programs will appear on the screen.



*Some programs may not be listed and cannot be removed via this window. In this case, check the documentation that came with the specific program.*

## 2.8 Managing Files

- Updating Antivirus Software
- Backing Up Files
- Finding Files
- Copying a File on the Hard Drive
- Renaming Files
- Deleting Files
- Emptying the Recycle Bin
- Retrieving Files From the Recycle Bin

### 2.8.1 Updating Antivirus Software

There are thousands of known viruses, and more appear all the time. Installing antivirus software is the only way to protect your data, software and hardware. Regular updates are necessary to ensure protection.

Your notebook dealer can advise you regarding purchasing antivirus software.



*Before installing any software from unlicensed sources, scan for viruses. Regularly backup your data to safeguard against loss if your notebook is infected.*

### 2.8.2 Backing Up Files

Regularly backing up your files will protect you from losing data from accidental file deletion, viruses or hard drive failure.

Programs can be reinstalled, unless you have backed up your work, you will lose your data files.

The most convenient way to back up your files is to a CD-RW drive. For smaller files, you can use a floppy disk.

### 2.8.3 Finding Files

Right click on **Start > Search**.

In the search window, type a word or part of a word in the search box.

As you type, files from a variety location (drives and folders on your notebook) that match your text will appear.

You can click one of the available filter buttons to show only certain kinds of files, such as E-mail, Document, Picture, or Music.

### 2.8.4 Copying a File on the Hard Drive

From the **Desktop**, select **Computer**.

Locate the file you want to copy, and click the file to select it.

Right click the file you want to copy, and then click **Copy**.

Open the location where you want to store the copy.

Right click within the location, and click **Paste**.

### 2.8.5 Renaming Files

Use **Windows Explorer** or **Computer** to locate the file you want to rename, and click the file to select it.

Click the **Organize** menu and select **Rename**.



*Never change a file's extension (the last three characters after the period). Doing so may render the file unusable.*

Type the new filename and press **Enter**.

### 2.8.6 Deleting Files



*Never delete files that are part of an installed program. Doing so may render the file unusable.*

Use **Windows Explorer** or **Computer** to locate the file you want to delete, and click the file to select it.

Click the **Organize** menu and click **Delete**.

Click **Yes** to send the file to the **Recycle Bin**.

If you accidentally delete a file, see **2.8.8 Retrieving Files From the Recycle Bin**.

### 2.8.7 Emptying the Recycle Bin

Files remain in the **Recycle Bin** and take up space on the hard drive until you empty them from the **Recycle Bin**.



*Files deleted from an external drive or from a network are permanently erased. You cannot recover them from the Recycle Bin.*

Double-click the **Recycle Bin** icon.

The **Recycle Bin** window appears and lists all deleted files, their previous locations, and the dates you deleted them.

Click the **File** menu, and click **Empty Recycle Bin**.

When the confirmation dialog box appears, click **Yes** to delete all file(s).

All files disappear from the **Recycle Bin** and are removed from your notebook.

### 2.8.8 Retrieving Files From the Recycle Bin

Deleted files are moved to the **Recycle Bin** and remain there until you empty the Recycle Bin. If you delete a file in error, you can retrieve it from the **Recycle Bin**:



Double-click the **Recycle Bin** **Recycle Bin** icon.

The **Recycle Bin** window will appear, listing all deleted files, their previous locations, and the dates you deleted them.

Select the file you want to retrieve, and click **Restore this item**.

The file disappears from the **Recycle Bin** and is moved to its original location.

You can also recover all the files from the **Recycle Bin** by clicking **Restore all items**.

## 2.9 Playing CDs and Movies

- Inserting Discs
- Adjusting the Volume
- Adjusting the Picture

### 2.9.1 Inserting Discs



*Be careful not to press down on the drive tray when opening or closing it. When the drive is not in use, keep the tray closed.*



*Do not move the computer when playing CDs or DVDs.*

To insert a disc, do the following:

1. Press the eject button on the front of the drive.
2. Pull the tray out.
3. With the label side up, place the disc in the center of the tray.
4. Snap the disc onto the spindle.
5. Gently push the tray back into the drive.

If your notebook has a CD-RW/DVD or DVD, you can watch movies.

For more information on playing CDs or watching movies, click **Help** on the CD player software or DVD player software.

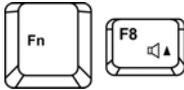
### 2.9.2 Adjusting the Volume



*If you do not hear anything when playing a CD or DVD, check that the speakers are not muted.*

**Start > All Programs > Accessories > Windows Mobility Center.**

In the **Windows Mobility Center** window, click and drag the bar in the **Volume** column and slide it left or right to decrease or increase the volume.

	Audio Volume Down
	Audio Volume Up

### 2.9.3 Adjusting the Picture

If you receive an error message that the current resolution and color depth are using too much memory and preventing DVD playback, adjust the display properties:

**Start > Control Panel > Appearance and personalization > Personalization > Display Settings.**

In the **Display Properties** window, click and drag the bar in **Resolution** section to change the setting to 1024 x 768 pixels.

Click the pull-down menu under **Colors**, select **Medium (16 bit)**, and click **OK**.



**Chapter 3**  
**Innovative Product Feature**

### **About this Feature Guide**

This feature guide is designed to highlight and clearly illustrate the 2008 innovative features and let you easily understand, hands-on, the most important is, to utilize this innovative features at the best efficiency.

### **What you can find in this guide:**

- Introduces the 2008 innovative features come with your laptop.
- Illustrates the feature details in operation procedure and applicable scenario.
- Highlight the characteristic of the new innovative features.

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The combination of the features is model dependent.

### **What Features we are offering to you**

Program DJ contains a set of innovative value-added software that brings you the consideration and convenience features.

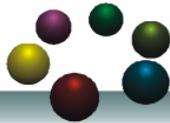
Video and Audio preference setting for joyful experience.

Advanced biotechnology on facial recognition and identification system for in depth security control.

Power management on system camera monitoring, battery charging methodology and extra power source ports.

Camera monitoring usage for protecting content security from been stolen.

- **Easy Logon**



## Program DJ

- *Easy to launch* Compal Innovative Products
- *Friendly operations to fast select* various applications
- Enables *better control, design, and development* from richer user interface
- Experience the *different impressions* on using and controlling applications

- **Power Control**



## Green Charger

- By adjusting the methodology of the battery capacity recharging, Green Charger can *extend total battery efficiency and life cycle*
- Users choose the most appropriate mode according to their using behavior.

- **Joyful Experience**



## WOW Audio

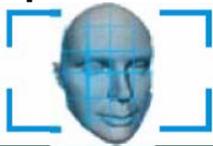
- WOW Audio is a setting assortment for audio conditions preset in Tone, Bass, Balance and Volume that offer users a chance to select the most-fit combination according to their preference.
- The preset scenarios are *Normal, Speech, Classic, Rock* and *POP*



## WOW Video

- Setting assortment for video conditions preset in Color Defines, Resolutions and Viewing to select that offer users a chance to select the most-fit scenario according to their preference.
- The preset scenarios are *Normal, Office, Photo, Movie* and *User Define*.
- The User Define option provides user an advanced chance to customize their personal scenario.

- **Depth Security Control**



## Entrance Guard

- When power-on, the system automatically enable the build-in webcam and execute a security check from its database to see if the user had been authorized to allow to get into the system or not.
- It is *not very safe* for neither ID nor password is showed on the screen.



## Smart Watchdog

Smart Watchdog can detect the presence of the users for an *advanced power management* and *enhance the security* of the data inside the System from spying.



## Safety Guard

- Safety Guard utilizes camera and microphone to guard your properties. If any behavior had been detected, Safety Guard starts to *record* and *stores the frames* in the storage.
- Provides the remote notification function by *sending out* users email and SMS

- **User Friendly**



## Wireless Switch

- Providing a GUI interface for fast wireless switching on existing wireless devices.
- When Bluetooth and WLAN (802.11X) devices both exist, users can switch both or either device on or off according to their preference.



## Meeting Secretary

It provides users an excellent function for *recording your own audio or audio/video clips*. Value added and consideration program provides a user-friendly operation interface and extends the system usability.

### Innovative Product Feature

#### How to Launch Innovative product

##### From Start Menu

Innovative Product can be launched from start menu

**Start--> Program DJ--> Innovative Product**

##### From Program DJ

By clicking on the Innovative Product icon can be launch the Program DJ

#### Scenarios

Launch Compal application via Program DJ

## 3.1 Easy Logon

### 3.1.1 Program DJ



Figure 01: Program DJ Main Flash

#### Operation Procedure

To launch Program DJ, the Program DJ mains interface appears for users to select the program they want to use.

With flash installed, users can see a flash enabled main interface can be seen and operated; otherwise, only a mini bar Menu will be available to operate.

The sequence of icons depends on what and how much application has been installed.



*The application quantities may not be the same because some applications need special hardware.*

#### The main interface

With mouse over the application, the description of that program feature will be displayed in the center box. To launch the application, simply by either double clicking on the icon or single click on the “Launch” button.



Figure 02: Program DJ Main Interface

### The Program DJ Mini bar

After launched either of the applications, the flash enabled main interface will minimize into a mini bar and wait for next application launch.

When specific of application is used, the application button will be display in highlighted background.



Figure 03: Program DJ Mini bar



#### **Notice Scale button:**

Users can click the scale button to switch Program DJ between main interface and mini bar.



#### **Close button:**

Users can click the close button to close Program DJ program.

## 3.2 Power Control

### 3.2.1 Green Charger

#### Scenarios

An environmental care concept had been applied to the product by utilizing the mechanism of battery management to keep the earth green as well as extend the life cycle of the battery usage.

#### Main Functions

There are 3 modes to choose from when recharging the battery. Users choose the most appropriate mode according to their using behavior.



Figure 04: Green Charger Configuration Dialog

- (1)  **Battery Full Charged**  
Green Charger will charge the battery to a fully charged status of its capacity. The benefit for this mode is to maintain the battery in its biggest capacity status against to its nature decadency.
- (2)  **Balanced**  
Green Charger will charge the battery to a 75% charged status of its capacity. The benefit for this mode is to meet the advantage between battery Capacity and Life Cycle.
- (3)  **Extended Battery Life Cycle**  
Green Charger will charge the battery to a 50% charged status of its capacity. The benefit for this mode is to extend the battery life cycle from its material characteristics.



*If you need to use the notebook in the DC mode, you should need a full-charged battery to extend DC mode usage duration.*

(4)  **"On-the-Go" Button**

After the user click the **"On-the-Go"** button to launch this feature, the system will charge the battery up to 100% capacity while in the "75% Balanced" & "50% Extended Battery Life Cycle" modes. After the battery is charged completely, it will not charge any more and the charging ratio settings will restore to the current user preference.

Note that if you still plug the AC cable, the battery will discharge to current charging ratio. (Ex. 75% or 50%). This is a feature of only one time for every single press. Then, users can go for a meeting or others with full-charged battery and without power cord.



- 1. User can click the **"Default"** button to load the default Green Charger settings. After clicking the "Default" button, it will restore all options to default settings. It will activate the settings only after clicking the **"OK"** button, or else, discard them by clicking other buttons.*
- 2. User can click the **"OK"** button to save the current Green Charger settings and make the changes take effect.*
- 3. User can click the **"Close"** or **"X"** button to discard all the changes. All of the original settings will not be changed.*

## 3.3 Joyful Experience

### 3.3.1 WOW Audio

#### Scenario

WOW Audio is a setting assortment for Audio conditions preset in Color Defines, Resolutions and Viewing Sizes that offer users a chance to select the most-fit scenario according to their preference.



Figure 05: WOW Audio Configuration Dialog

#### Main Function

1. **Normal:** Presents the sound based on the factory default settings
2. **Speech:** Provides users the sound in enhancing human-voice frequency portions to present the sound more clear.
3. **Classic:** Provides users the sound in moderate to present the characteristics of the classics music.
4. **Rock:** Provides users the sound in moderate to present the characteristics of the Rock music.
5. **POP:** Provides users the sound in by enhancing mid-range frequency portions to present the sound without extreme high tone or high bass.

### 3.3.2 WOW Video

#### Scenario

WOW Video is a setting assortment for Video conditions preset in Tone, Bass, Balance and Volume that offer users a chance to select the most-fit combination according to their preference. The preset scenarios are *Normal, Speech, Classic, Rock* and *POP*

The preset scenarios are **Normal**, **Office**, **Photo**, **Movie** and **User Define**. *Define*. The User Define option provides user an advanced chance to customize their personal scenario.



Figure 06: WOW Video Configuration Dialog

### Main Functions

1. **Normal**: Presents the graphics based on the factory default settings
2. **Office**: Provides users the graphics in detail to present the character/letter clearer.



Figure 07: Comparing to Normal mode (circle right), Office mode (circle left) provides sharper edges on letters for better readability

3. **Photo**: Provides users the graphics in enhanced color to present the picture more saturated.
4. **Movie**: Provides users the graphics in dimmer to present the movie in a condition more suitable for longer period watching.



Figure 08: Photo mode (circle left) provides higher details on objects, While Movie mode (circle right) provides lower.

5. **User Define**: Allows users to have their own unique system setting according their preference.

1. To click the “Right button” of touch pad to setup the detail settings of the Wow video scheme.
2. There are 4 options to select in “Color Channel” Click on: **Red, Green and Blue**. Users can set Gamma, Contrast and Brightness for each color channel separately.



*Figure 9: Video Scheme Details Dialog*

## 3.4 Depth Security Control

### 3.4.1 Entrance Guard

#### Scenario

This feature provides an auto logon mechanism to your MS Windows system by utilizing the built-in webcam to recognize the face of users who intend to logon to the system. It secures the exposure of the IDs and passwords, as well as to make the logon very easy and speedy.

Users power on the laptop and the system automatically enable the built-in webcam and its database for a security check to see if the user has been authorized to allow to get into the system or not.

#### Main Functions

There are 3 main applications in the function page there are Account Management, IM Password Wizard and Advanced Feature.



Figure 10: Entrance Guard Dialog

## 1. Account Management

### (1) Create New Account

Users can manage the Entrance Guard accounts via this function. Users can use the webcam to capture new faces, and then setup new security password to create new user account.

### (2) Delete Account

Users can delete the current running Entrance Guard account (Self-delete).

### (3) Update Account

Users can update the information of current accounts, such as new face or new security password.



*Figure 11: Account Management Dialog*

## 2. IM Password Wizard

This function provides automatic and easy logon to 5 popular real-time web based communicators, they are “Windows Live Message”, “Yahoo! Messenger”, “Skype”, “ICQ” and “QQ” by presetting the logon information within.



*Figure 12: IM Password Wizard Dialog*

### 3. Advanced Settings

In this setting page, users can find more advanced information and settings for experienced users.

**(1) Password Management**

Users can see what their preset logon information. Users can do some changes including delete or correct field data.

**(2) Option**

Users can change the default setting on some preset Entrance Guard behaviors.

**(3) Event log**

Users can review the records of logon actions to verify dialog appear event. If the event was successful, it only shows text to inform users. If the event was fail, it shows the face image on the box below for demonstration.



*Figure 13: Advanced Settings Dialog*

### Operation Procedure

#### Create New Account

1. Click on “**Account Management**”, screen will change to dialog below. (Figure 16), Click on “**Create New Account**” You can start to create a new account



Figure 14: Entrance Guard-Setup (1)

2. Input user's windows password to create a new Account. Press "OK". (Figure 17)



Figure 15: Entrance Guard-Account Training dialog

3. Counting backwards for 5 seconds, System will catch the face information through the webcam used as data of the account. (Figure 16)
4. When face capturing users' faces must stay close to webcam and avoid rocking their faces in order to catch the best image information.
5. In order to get the best result, users shall need to move their face in the yellow frame.
6. If the face image been detected well, the green square will appear and the webcam will capture the face in the green frame.
7. Otherwise, the red frame will appear when face detection is unsuccessful. Users need to keep moving their face for a best detect result.



Figure 16: Entrance Guard Account Training Dialog

8. After face image verification, users will be asked to key-in the security password. (Figure 17)



Figure 17: Security Password Setting Dialog

9. User can store the security password in the proper location. (Default or customized) (Figure 18)

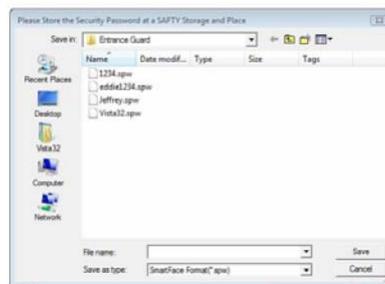


Figure 18: Security Password Saving Dialog

After the whole new Entrance Guard account creation procedure has been completed, user can click on the “Finish” button to saved and apply to the program. (Figure 19)



Figure 19: Account Creation Finish Dialog

Delete Account

Click on “**Delete Account**”, Face Authentication will first detect face to verify user identity and then delete account.

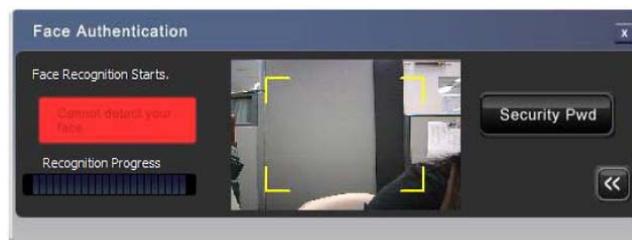


Figure 20: Face Authentication Dialog

Update Account

Click on “**Update Account**” System will catch the face information through the webcam used as data of the account again. (Figure 16)

### 3.4.2 Smart Watchdog

#### Scenario

Smart Watchdog is a monitoring application that utilizes webcam function for extended service to users.

By using the built-in webcam, the Smart Watchdog can detect the presence of the users for an advanced power management and enhance the security of the data inside the laptop from spying.

#### Main Functions

(1) Monitoring

The Smart Watchdog will use webcam to detect if the users are still in front of system, if users has been left for a certain period of time, the Smart Watchdog will tell system for next instruction that user's pre-defined.

(2) Power Saving

Smart Watchdog can instruct system to go into either "Standby" or "Hibernation" by following the user preset watching criteria to save the power for longer time operation. Depends on the user using behavior, an average estimation around 10 % power saving would be a reference.

(3) Security Enhancement

Smart Watchdog secures the data from spying or illegal use on when the users are not around.

(4) Standby Time Setting

This feature is for setting the time period before system will go into Standby mode.



Figure 21: Smart Watchdog – System Standby Screen

(5) Hibernate Time Setting

This feature is for setting the time period before system will go into Hibernate mode.



Figure 22: Smart Watchdog – System Hibernate Screen

**Operation Procedure**

1. Click on “**Smart Watchdog**” icon under “**Smart Watchdog**” folder and dialog shown.
2. The Smart Watchdog dialog appears for further feature selection.
3. To active the monitoring webcam, users can select to set either the time period for getting into “Standby” or “Hibernate”.
4. The time period before go into Standby can be set from 15 seconds to 5 minutes in 7-segment settings. Users can also set the time as “Never”. (Refer to Figure 23)
5. The time period before go into Hibernate can be set from 1 minute to 10 minutes in 5-segment settings. Users can also set the time as “Never”. (Refer to Figure 24)

### 3.4.3 Safety Guard

#### Scenario

This is a compound technology by the Video Tracing through webcam through Digital Microphone. Safety only needs webcam and Microphone.

Users can utilize this feature for safety assurance or other monitoring applications.

#### Main Functions

##### 1. Tracing Mode

After launch Safety Guard, it starts at the “**Tracing**” mode.



Figure 23: Safety Guard Tracing Mode

Press “” button to start tracing process, Safety Guard begin to guard your properties. If abnormal behavior is detected, Safety Guard starts to record and save the abnormal frames in the storage.

Press “” or “” button can pause or stop the tracing process.



**Normal:** Set the tracing sensitivity to normal.

**High:** Set the tracing sensitivity to high level.



**Time:** Limit the length of the recording file.

**Space:** Limit the size of the recording file.

**None:** No limitation.

2. View Records Mode

In “**View Records**” mode, user can review the abnormal files that were recorded at tracing process.

The files are stored in the folder at “**C:\Users\{user account}\Documents\Safety Guard\AVStream\**”.



Figure 24: Safety Guard View Records Mode

Press “” button to play the file, “” and “” button for user to pause or stop it.

 **Delete Button:** Remove the item of the file list and delete it from storage.

 **Rename Button:** Rename for the files.

3. Schedule Arrangement

“**Schedule Arrangement**” dialog for user to arrange the tracing schedule.

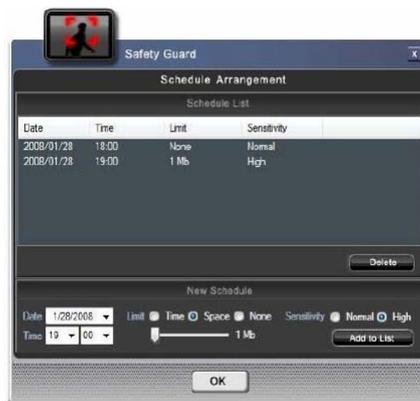


Figure 25: Safety Guard Schedule Dialog



**Schedule List:** List the tracing schedule items.

**Delete button:** Delete the item in schedule list.

**Add New Schedule:** To add new tracing schedule, set date, time, sensitive, and limit condition, then press “Add to List” button.

#### 4. Tracing Settings

Press “**Tracing Settings**” button then shows the “**Settings**” dialog This page for user to change the following settings: recording setting, user mail setting and SMS setting.



Figure 26: Safety Guard Settings Dialog



#### Recording Setting

**Record time mark:** Add time mark on the video frame when recording.

**Blank the monitor screen:** Blank the monitor screen when start tracing.

**Warning message:** Pop up warning message when the abnormal frame detected.

Press the “**Use default**” button to enable all the three options.



### User Mail Setting

Safety Guard provides e-mail notification. When abnormal behavior is detected, Safety Guard will send a warning message with a snap to the designated e-mail address.

**Recipient:** E-mail address as the receiver of the mail.

**Sender:** Set the e-mail address as the sender of the mail.

**SMTP server:** Set the SMTP server for sending e-mail.

**Port:** Fill in the port number, which is provided by the SMTP service provider.

**SSL:** Check it if the server requires a secure connection.

**Authentication:** Fill in the username and password if the server requires authentication.

To save the changed settings, press the “**Update**” button.

### SMS Setting

Safety Guard provides SMS notification. User can receive a short message by mobile phone when the abnormal behavior is detected.

To save the changed settings, press the “**Update**” button.

To utilize SMS notification, user must have a Skype account first. And Skype must be installed in the system.

For more information about Skype SMS, please refer to the Skype website ([www.skype.com](http://www.skype.com)).

## 3.5 User Friendly

### 3.5.1 Wireless Switch

#### Scenarios

Users set the Wireless Switch preference. Only when Bluetooth and WLAN (802.11x) devices both exist, users can adjust their preference.



Figure 27: Wireless Switch Configuration Dialog

#### Operation Procedure

- (1)  Apply both Bluetooth and WLAN (802.11x) devices.
- (2)  Apply Bluetooth device.
- (3)  Apply WLAN (802.11x) device.

After selected, it will take effect by press “**Enter**” keyboard keypad immediately or configurations will apply after 4 seconds.

You can also click the expected item by mouse cursor then it will apply the configurations immediately.

 *If you want to turns off both devices, please switch the “kill switch”  
If “kill switch” turns off, both devices are all disabled.*

### 3.5.2 Meeting Secretary

#### Scenarios

To integrate and enhance the feature of built-in CMOS sensor and Array Microphone, a smart service of on-line meeting has been designed for personal and conference audio/video recording.

To enable for users to use the utilities of the video tracing of CMOS sensor and the voice beam forming tracing of Array Microphone to create a virtual personal media office.

Meeting Secretary has two modes, Video Mode and Audio Mode, and each of them has unique features. This section will briefly describe the behaviors of these features.

#### Single Mode

In this scenario, the webcam detects only one person in front of the PC. Meeting secretary will adjust webcam and enable the beam forming function to capture video and audio. The illustrations that describe the webcam and microphone behaviors are as below.

##### 1. Webcam Behavior

In this scenario, the detected object will be zoomed and located in the center of the display window. The webcam will automatically trace the object as it moves.



Figure 28: Webcam Behavior in Single Mode  
(Object zoomed to the center).

##### 2. Microphone Behavior

In this scenario, Meeting secretary will enable microphone array functions including the Beam Forming and Noise Suppression. These functions can filter static noise and room reverberation.

The microphone array can always retrieve the front voice and filter out voices from other directions.

### Multiple Mode

In this scenario, the webcam detects two peoples in front of the PC. Meeting secretary will adjust webcam and enable beam-forming function to capture video and audio. The illustrations that describe the webcam and Microphone behaviors are as bellow.

#### 1. Webcam Behavior

The Meeting secretary can separate different objects and display in each window. Each user can be positioned in the center of an individual window of partial screen.

#### 2. Microphone Behavior

In this scenario, Meeting secretary will enable the microphone array functions including the Beam Forming and Noise Suppression. These functions can filter static noise and room reverberation.

The microphone array can always retrieve the front voice and filter out the other direction voices.

### **Main Functions**

There are 5 stream recording modes to choose from the Main Dialog (see Figure 29). There are Solo, Conference, Video, Video Tracing and Snapshot.



*Figure 29: Meeting secretary main dialog*

1.  **“Solo”** Audio Recording

- (1) In solo audio recording mode, Meeting secretary enables Beam Forming and Noise Suppression functions.
- (2) The microphone array can automatically allocate and steer toward the sound object to record it.
- (3) Users can record their own voice through this function for voice message or reminder usages.
- (4) The recorded audio files are saved as **“yymmdd-hhmmss.wma”** and kept in **“.\User\Documents\Meeting secretary\AudioSolo”** folder

2.  **“Conference”** Audio Recording

- (1) Users are able to record the conversation in the conference.
- (2) All sound recorded without the Beam Forming and Noise Suppression functions.
- (3) The recorded audio files are saved as **“yymmdd-hhmmss.wma”** and kept in **“.\User\Documents\Smart Meeting\AudioConference”** folder.

3.  **“Video”** Recording

- (1) The **“Video”** function will record both sound and image without any advanced tracing function.
- (2) The recorded audio files are saved as **“yymmdd-hhmmss.wmv”** and kept in **“.\User\Documents\Meeting secretary\VideoConference”** folder.

4.  **“Video Tracing”** Recording

- (1) **“Video Tracing”** enables the auto tracing function to the objects (users’ faces) in front of the webcam lens.
- (2) In Single Mode, when object moved, the lens will follow to get the best fit image captured onto the center of the video dialog.
- (3) In Multiple Modes, the video dialog screen will be divided into sub-dialogs, while multiple objects had been detected in front of the lens. The lens will also trace to get the best-fit images and put on the center of the each video dialog.
- (4) The recorded audio files are saved as **“yymmdd-hhmmss.wmv”** and kept in **“.\User\Documents\Meeting secretary\VideoSolo”** folder.

 yy : Year  
mm : Month  
dd : Date.  
hh : Hour  
mm : Minute  
ss : Second.

## Operation Procedure

### Player Control

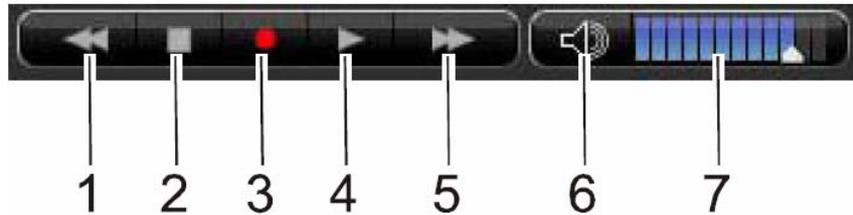


Figure 30 : control buttons

#### 1. Previous Button

When playing the recorded clip or browsing captured image, user can press this button to stop current action and leap to the previous one and continue to execute the same function on this clip or image.

#### 2. Stop Button

When playing the recorded clip or browsing captured image, users can press this button to stop current action.

#### 3. Record Button

Users can press this button to start recording the video streams according to the settings in the current mode. When recording, the volume will be muted. Users can also press this button or other play control buttons to stop the recording action.

#### 4. Play Button

Users can press this button to play, pause or replay current file.

#### 5. Next Button

When playing the recorded clip or browsing captured image, users can press this button to stop current action and leap to the next one and continue to execute the same function on this clip or image.

#### 6. Mute Button

Users can press this button to mute the volume output or release it. This function will be automatically disabled while Meeting secretary is recording.

When the status is at mute, users can press this button or other volume control buttons to disable and change the volume level.

#### 7. Volume Control Bar

Users can control the volume level via sliding the control bar left or right.

When volume status is mute, users can also slide this bar to release it.



### Webcam Settings

Users can change the webcam settings according to the preference of users. The property page below is provided with webcam driver.

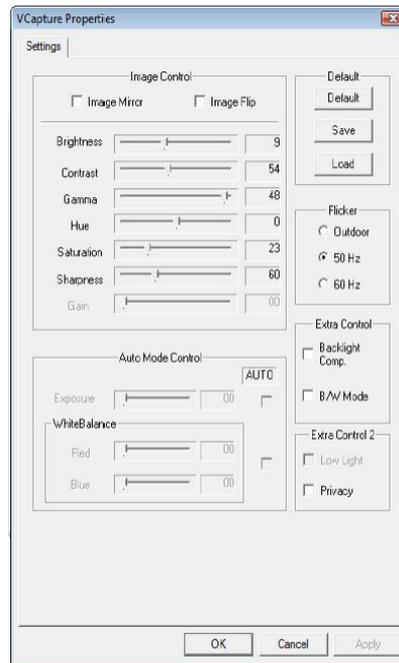


Figure 31 : The Property Page of Webcam



### Audio

Users can change the microphone settings according to the preference of users. The property page below is provided with audio driver.

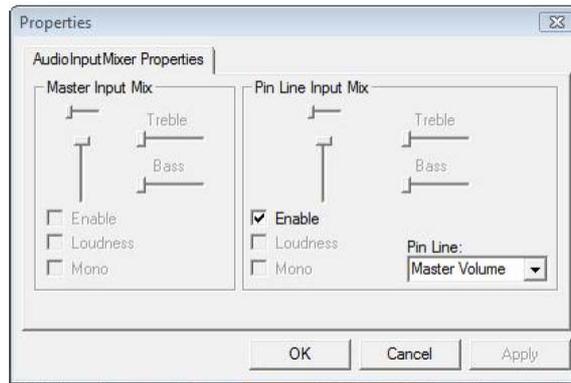


Figure 32 : The Property Page of Audio



### **File List and E-Mail**

Users can quickly attach the photos, audio or video files that are selected in the file list to E-mail and sent out.



### **Snapshot**

Users can press this button to take a picture. Obviously, this button enables only in Video mode.



**Chapter 4**  
**Caring for Your Notebook**

## 4.1 Caring for Your Notebook

- Cleaning Your Notebook and Keyboard
- Cleaning the Display
- Cleaning the Touch Pad
- Cleaning the CD/DVD Drive
- Precautions



*Never spray cleaning products directly onto your notebook's case or display. Only use products designed for cleaning computer displays.*

#### 4.1.1 Cleaning Your Notebook and Keyboard

1. Shut your notebook down, turn it off and disconnect it from the electrical outlet and any external devices, such as the printer.
2. Remove the battery pack.
3. Use the brush attachment of your vacuum cleaner to gently remove dust from your notebook's openings and keyboard.
4. Use a slightly moistened soft, lint-free cloth to wipe your notebook and keyboard. *Use only the water or the recommended computer cleaner.*

#### 4.1.2 Cleaning the Display

1. Shut your notebook down, turn it off and disconnect it from the electrical outlet and any external devices, such as the printer.
2. Remove the battery pack.
3. Use a slightly moistened soft, lint-free cloth to wipe your notebook's display. *Use only the water or the recommended computer cleaner.*

#### 4.1.3 Cleaning the Touch Pad

1. Shut your notebook down, turn it off and disconnect from the electrical outlet and any external devices, such as the printer.
2. Remove the battery pack.
3. Use a slightly moistened soft, lint-free cloth to carefully wipe the Touch Pad, being careful not to allow the moisture into the gaps of your notebook. *Use only the water or the recommended computer cleaner.*

#### 4.1.4 Cleaning the CD/DVD Drive



*Never touch the lens. Use only the compressed air to clean the lens.*

If you encounter the difficulty in playing CDs or DVDs, including skipping over, please clean the unlabelled side of the disc with a soft, lint-free cloth or use the commercial product.

#### 4.1.5 Precautions

- Do not spill the liquid on the keyboard. If the liquid is spilt on the keyboard, turn your notebook off immediately. Leave off overnight to let it completely dry out before using it again.
- Do not turn off your notebook if the drive light indicates the drive is active. Turning off your notebook while it is reading from or writing to a disk may damage the disk, the drive, or both.
- Keep your notebook and disks away from the objects that generate the strong magnetic fields, such as the stereo speakers. Information on disks is stored magnetically. Placing the magnet too close to the disk can erase the important files.
- Scan all new files for viruses. This precaution is especially important for the files you receive via email, disk or download from the Internet. You will need the special program to scan for viruses. For further information, please contact with your notebook dealer.
- To ensure HDD function and the integrity of the saved data, please follow the instructions below:
  - ◆ Protect your notebook from any impact during its operation.
  - ◆ Do not use your notebook during the transportation such as in the car.
  - ◆ Do not put your notebook in the car if it is directly exposed under the sun.
  - ◆ Do not place any heavy objects on the LCD monitor.
  - ◆ Use the AC adapter coming with the package instead of other adapters.

## 4.2 Traveling

- Identifying Your Notebook
- Packing Your Notebook
- Traveling Tips
- If Your Notebook is Lost or Stolen

#### 4.2.1 Identifying Your Notebook

Attach a nametag or business card to your notebook, or use the permanent marker or stencil to write a unique identifying mark (such as your driver's license number) on the case.

Create a file on the Desktop called **if found**. Place information such as your name, address, and telephone number in this file.

Contact your credit card company to ask if it offers coded identification tags.

#### 4.2.2 Packing Your Notebook

- Remove any external devices attached to your notebook and store them in a safe place.
- Fully charge the main battery and any spare batteries you plan to carry with you.
- Turn off your notebook or put the computer into hibernate mode.
- Disconnect the AC adapter.
- Remove any extraneous items, such as paper clips, pens, and papers, from the keyboard and then close the display.
- Pack your notebook and accessories in their carry case.
- Avoid packing the computer with items such as shaving cream, colognes, perfumes, or food.
- Protect your notebook, the batteries, and the hard drive from hazards such as extreme temperatures, dirt, dust, liquids, or overexposure to sunlight.
- Pack your notebook so that it does not slide around in the trunk of the car or in an overhead storage compartment.



*When traveling in the air, never check in your notebook as baggage.*

### 4.2.3 Travel Tips

- If you are traveling abroad, you can carry the proof of ownership—or of your right for using your notebook if it is company-owned—to speed your passage through customs. Investigate the customs regulations of the countries you plan to visit and consider acquiring an international carnet (also known as a merchandise passport) from your government.
- Ensure that you know which electrical outlets are used in the countries you will visit, and prepare the appropriate power adapters.
- Check with your credit card company for information about any kinds of emergency travel assistance it offers to the users of the portable computers.
- When traveling in the air, please ensure that you have a charged battery available in case you are asked to turn on your notebook.
- Before using your notebook on the airplane, please verify that such usage is permitted. Some airlines forbid the use of electronic devices during the flight. All airlines forbid the use of electronic devices during taking-off and landing.



*Never pass your notebook through a metal detector. Send it through an X-ray machine, or have it manually inspected.*

### 4.2.4 If Your Notebook is Lost or Stolen

Call a law enforcement agency to report your notebook lost or stolen. Ask that a case number be assigned and write down the number, along with the name, address, and telephone number of the law enforcement agency. If possible, please obtain the name of the investigating officer.

If your notebook belongs to the company, notify its security office.



# **Chapter 5**

## **Peripherals**

## 5.1 Express Cards

- Express Card Types
- Installing a Express Card
- Removing a Express Card

### 5.1.1 Express Card Types

The New Card slot supports one 54/34mm type Express Card. It supports both USB 2.0 and Express technology, which improve the speed in data transfer and require less power than PC Cards.



*An Express Card is not a bootable device.*

### 5.1.2 Installing a Express Card

Express Cards, with hot-plug feature, allow you to install and remove cards when your notebook is running. The card will be detected automatically after being installed.

Usually Express Cards have a mark or symbol to show which end to insert into the slot. Insert the card according to the orientation symbol, and slide the card into the slot. Check the documents that came with your card if the orientation is unclear.



1. Press to release the dummy card from the New Card slot.
2. Hold the Express card with its orientation symbol pointing into the slot and the topside of the card facing up.
3. Slide the card into the slot until it clicks into the connector.
4. If you encounter too much resistance, do not force the card. Check the card orientation and try again.

### 5.1.3 Removing a Express Card



1. Push the card all the way to and then release it.
2. Pull the card out of the slot.

## 5.2 Adding and Removing SD/MMC/MS Cards



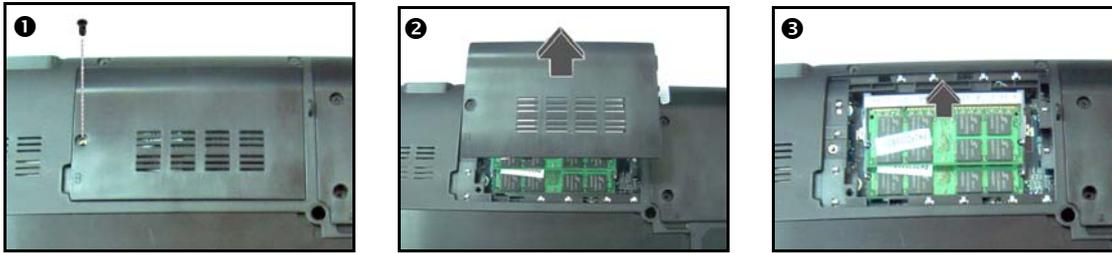
*Before removing an SD/MMC/MS card, stop it running from the configuration utility on the taskbar. Failure to do so could result in the data loss.*

Insert the SD/MMC/MS card into the card reader slot.

To remove the SD/MMC/MS card, please push it in gently and then it ejects automatically.

## 5.3 Memory Modules

You can add more memory modules to your notebook to improve its performance.



### To install a memory module:

3. Make sure the computer is turned off.
4. Remove the screw securing the memory module cover.
5. Lift off the memory module cover.
6. There are two memory module ports. The current memory module in your notebook already occupies the one. Place the new memory module in the second slot, matching up the notch along its connector rim with the tooth in the connection slot.
7. When the module is secured, please press down gently until it snaps into place.



*Depending on how much additional memory you require, you may need to replace the original memory module.*

### To remove a memory module:

1. Make sure the computer is turned off.
2. Remove screw securing the memory module cover.
3. Lift off the memory module cover.
4. Pop out both silver latches holding the memory module into place. The module pops up.
5. Grasp the outer edges of the memory module with the thumb and forefinger, and then gently remove it.

**Chapter 6**  
**The Power System (Vista)**

## 6.1 Power Management

- Managing Your Notebook's Power
- Power Management Modes
- Power Options Properties
- SpeedStep

## 6.2 Managing Your Notebook's Power



See 6.3 Battery for more information on getting the best performance from the battery packs.



Use your notebook connected to an electrical outlet as often as possible as the battery life expectancy is affected by the number of times it is charged.

Your notebook comes with built-in power management. You can configure it through the **Power Options** program in the **Control Panel**, to sleep, hibernate, and wake according to the specific situations.

The **Advanced** settings can be accessed via **Start > Control Panel > System and Maintenance > Power Options**.

On the **Select a power plan** page, click **Change plan setting** under the plan that you want to change.

Click **Change advanced power settings**. Expand the **Power buttons and lid** category to configure the settings.

When leaving your notebook unattended for the long period, place it in Standby or Hibernate Mode. You can exit either power management mode by pressing the **Power Button**.

### 6.2.1 Power Management Modes

#### 6.2.1.1 Sleep Mode

This mode conserves power by switching off the hard drive and display after the preset period of inactivity (a time-out). When **Sleep Mode** is exited, your notebook will return to the same operating state it was before entering sleep.



*In Sleep Mode, if your notebook loses power from both of the electrical outlet and the battery, the data in your notebook may be lost.*

To enter **Sleep Mode** in Windows Vista:

**Start > ► > Sleep**. Or

Set your notebook to enter **Sleep Mode**, as you:

- Close the lid of your notebook
- Press the power button
- Press the start menu power button

The settings can be accessed via **Power Options: Advanced settings** window. See 6.2 *Managing Your Notebook's Power*.

To exit Sleep Mode, please press the **Power Button**. You cannot exit **Sleep Mode** by using any key or the Touch Pad. For more information on **Sleep Mode**, see 2.1 *Turning Your Notebook On and Off*.

### 6.2.1.2 Hibernate Mode

In **Hibernate Mode**, power is conserved by system data being copied to the hard drive, and your notebook is completely shut down. While **Hibernate Mode** is exited, your notebook will return to the same operating state it was in before entering **Hibernate Mode**.

**Hibernate Mode** can be enabled/disabled in the **Power Options** window.

Your notebook will go into **Hibernate Mode** if the battery charge level becomes critically low.

Depending on how you set the **Power Management Options** in the **Power Options** window, use one of the following methods to enter **Hibernate Mode**:

- Close the lid of your notebook
- Press the power button
- Press the Start menu power button
- **Start > ► > Hibernate.**

The settings can be accessed via **Power Options: Advanced settings** window. See **6.2 Managing Your Notebook's Power**.

To exit **Hibernate Mode**, press the Power Button. You cannot exit **Hibernate Mode** by using any key or the Touch Pad. For more information about **Hibernate Mode**, see **2.1 Turning Your Notebook On and Off**.

## 6.2.2 Power Options Properties

To access the **Windows Power Options** window:

**Start > Control Panel > System and Maintenance > Power Options**

### 6.2.2.1 Select a power plan

Windows Vista provides three preset power plans-Balanced, Power saver, and High performance. Each plan has the different time-out settings for turning off the display and entering **Sleep Mode**. You do not need to make any further adjustments to set the performance level.

To change setting for the plan, click the following three items on the left pane of the Power Options window.

- Choose when to turn off the display
- Change when the computer sleeps
- Adjust the display brightness

After selecting a plan, you can see the percentage of battery charge remaining and active power plan by moving the mouse pointer over the battery meter icon on the taskbar.

For more information on changing advanced power settings, see the **Windows Help and Support**.



To maximize battery power, use the *Power saver plan*.

### 6.2.2.2 Power buttons and password protection

Select **Require a password on wakeup**, **Choose what the power buttons does**, or **Choose what closing the lid does** from the left pane of the Power Options window. There are two main settings in this section:

- Power button and lid settings
- Password protection on wakeup

Depending on your operating system, program the following functions by clicking an option from the corresponding pull-down menu in **Advanced settings** window, and then clicking **OK** to save your settings and close this window.

For more information on accessing the **Advanced settings** window, see *6.2 Managing Your Notebook's Power*.

- Set the computer to **Do nothing / Sleep / Hibernate / Shutdown** when you press the power button.
- Set the computer to **Do nothing / Sleep / Hibernate / Shutdown** when you close the laptop lid
- Select the password requirement when the computer wakes from sleep.

### 6.2.2.3 Create a power plan

Besides three preset power plans offered in Windows Vista, you can also customize your own power plan. Select **Create a power plan** on the left pane of the Power Options window to begin configuring your power settings.

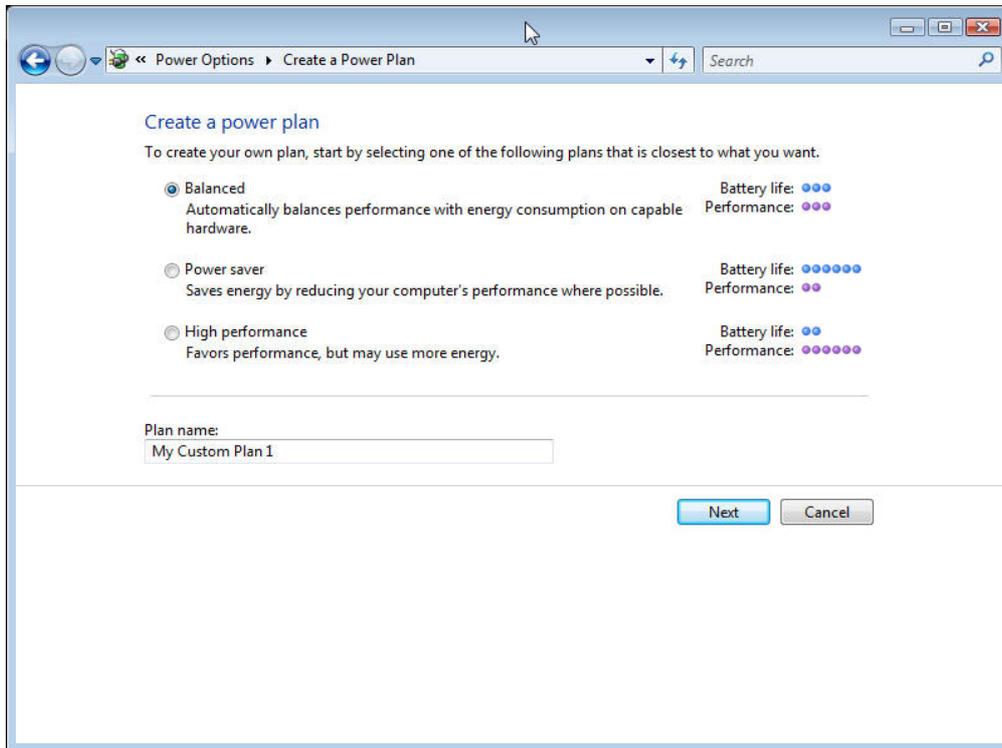
### 6.2.3 SpeedStep

Your notebook is equipped with SpeedStep technology to better manage power consumption. It changes the processor speed to find the best balance between your computing performance and power consumption needs. Higher speeds bring better performance, but the slower speed conserves more power.

In Windows Vista, the processor's performance level depends on the **Power Scheme** you select (see *6.2.2 Power Options Properties*). You do not need to make any further adjustments to set the performance level. Each preset power scheme has different time-out settings for entering Sleep Mode, Hibernate Mode, shutting down the display, or turning off the hard drive.

For example, the Windows Vista automatically changes **SpeedStep Modes** depending on running the AC power or batteries in order to prolong the battery usage while still providing optimal performance.

You can also individually alter and save each of these settings and schemes if desired. Choose from the following three power plans that describe the desired relationship between power and performance.



Windows Vista automatically chooses the **SpeedStep Mode** to find the most appropriate speed for your processor according to the type of plan you choose and your current system demands.

## 6.3 Battery

- Battery Performance
- Checking the Battery Charge
- Power Meter
- Low-Battery Warning
- Charging the Battery
- Removing a Battery
- Installing a Battery
- Storing a Battery
- Working With Extra Battery Packs
- Maximizing Battery Life

### 6.3.1 Battery Performance

The Battery Performance can be varied with on the different operating conditions. Your battery may last less time if you are running power-intensive programs, playing CDs or DVDs, or setting the high display-brightness.

The **Power Management Options** can be set to alert you when the battery charge is low.



*Ensure any battery you use is compatible. Failure to do so may risk fire or explosion. For more details on purchasing compatible batteries, please contact your notebook retailer.*



*Batteries should never be disposed of the household waste. Contact your local waste disposal or environmental agency for advice on disposing of the used lithium-ion batteries.*

### 6.3.2 Checking the Battery Charge

Battery Status	Indicator behavior
Charging	Flashes blue
Fully Charged	Solid blue
Critical Low	Amber > approximately 3 minutes left; system beeps

### 6.3.3 Power Meter

The power meter  indicates the remaining battery charge. When your notebook is running on battery power, you can double click the  icon on the taskbar to check the remaining battery charge. If you want to know more details about how to make the icon appear on the taskbar if it is not already, please see **6.1 Power Management**.

### 6.3.4 Low-Battery Warning



*After a low-battery warning, save your work immediately and then connect your notebook to an electrical outlet. Hibernate Mode will begin automatically if the battery runs completely out of power.*

You will hear the low-battery warning when the battery charge is approximately 90 percent depleted. Your notebook will beep once, indicating approximately 10 to 15 minutes of battery operating time remain. If you do not connect your notebook to alternative power source during that time, there will be a periodic beep. Your notebook will automatically enter **Hibernate Mode** if battery charge reaches a critically low level. For more information, see **6.1 Power Management**.

### 6.3.5 Charging the Battery



*When connected to an electrical outlet, a completely discharged 6-cell battery needs to be charged in 3.5 to 12 hours, and a 9-cell battery in 4.5 to 12 hours (depending on whether your notebook is on or off and what programs are running). You can leave the battery in your notebook as long as you like. The battery's internal circuitry prevents the battery from overcharging.*

Before using the battery for the first time it must be charged. Connect your notebook to an electrical outlet and allow the battery to fully charge, indicated by the battery indicator light on the front panel of your notebook.



*Once a battery pack is fully charged for the first time, please use your notebook on battery power until the battery discharges completely. This will extend the battery life, and helps to ensure the accurate monitoring of the battery capacity.*

If necessary, the battery will be charged whenever your notebook is connected to an electrical outlet.

The battery will not be charged if it or your notebook is too hot to use. If this situation occurs, the battery indicator will light amber. Disconnect your notebook from any electrical outlet, and allow it and the battery to cool down. You can then reconnect your notebook to the electrical outlet and charge the battery. The battery indicator will also light amber if the battery is bad and needs replacing.

### 6.3.6 Removing the Battery

Before removing the battery, ensure your notebook is turned off.

1. Move the battery lock to switch to the right (Unlock position).
2. Slide and hold the battery to release latch.
3. Remove the battery.

### **6.3.7 Installing a Battery**

1. Slide the battery into the bay.
2. Press it into place gently but firmly until the latch locks it into place.
3. Slide the battery lock to switch back to the locked position.

### **6.3.8 Storing a Battery**

If storing your notebook for an extended period of time, please remove the battery. Fully charge the battery before using your notebook again.

### **6.3.9 Working With Extra Battery Packs**

If you spend a lot of time traveling or work without connecting your notebook to an electrical outlet, it may be a good idea to carry the additional battery packs so you can quickly replace a discharged battery and continue working.

### **6.3.10 Maximizing Battery Life**

A battery can be recharged many times, but over time it will lose its ability to hold a charge. To maximize the battery life:

- If you are not using your notebook for a long period, please remove the battery.
- If you have a spare battery pack, please alternate the batteries.
- Ensure your notebook is off when replacing the battery.
- Store the spare battery packs in a cool, dry place, out of the direct sunlight.

# **Chapter 7**

## **The BIOS Setup Program**

## 7.1 Introduction

The BIOS (Basic Input and Output System) Setup program is a menu driven utility that enables you to make changes to the system configuration and tailor the operation of your notebook to your individual work needs. A ROM-based configuration utility displays the system's configuration status and provides you with a tool to set system parameters. These parameters are stored in nonvolatile battery backed-up CMOS RAM, which saves this information even when the power is turned off. When the computer is turned back on, the system is configured with the values found in CMOS. Via easy-to-use menus, you can configure such items as:

- Boot devices

The settings made in the Setup program intimately affect how your notebook performs. It is important, therefore, to first understand all the available options, and second, to make settings appropriate for the way you use your notebook. This chapter guides you through the Setup program by providing the clear explanations for all Setup options.

A standard configuration has already been set in the Setup program by the factory technicians. However, eventually you may want to customize your system to suit your own performance needs. It is recommended that you read this chapter and become familiar with the configurations that can be made in the BIOS.

The next section explains how to move around in the Setup program, as well as how to specify and save your new settings. A brief discussion of the optional settings among the different submenus follows.

## 7.2 Navigating through the BIOS Setup Program

- Accessing the BIOS Setup Program
- Launching Submenus
- Saving Changes and Exiting the Setup Program

The Setup program has been designed to make it as easy to use as possible. It is a menu driven program, which means you can scroll through the various directories and make your selections among the various predetermined choices. If you accidentally configure a setting, use the BIOS hot keys to return to the previous value. The hot keys are discussed in more detail later in this chapter.

When turning on your notebook for the first time you may be prompted to run the BIOS Setup program. A warning message may appear on the screen if the hardware configuration is changed or the POST fails. This message will inform you of any errors or invalid settings and prompt you to run the Setup program to correct the problem.

Even if you are not prompted by a message instructing you to use the Setup program, at some time in the future you may want to change the configuration of your notebook. It will then be necessary to reconfigure your system using the Setup program so that your notebook can recognize these changes.

The list below gives a few examples of reasons why you may want or need to run the BIOS Setup program.

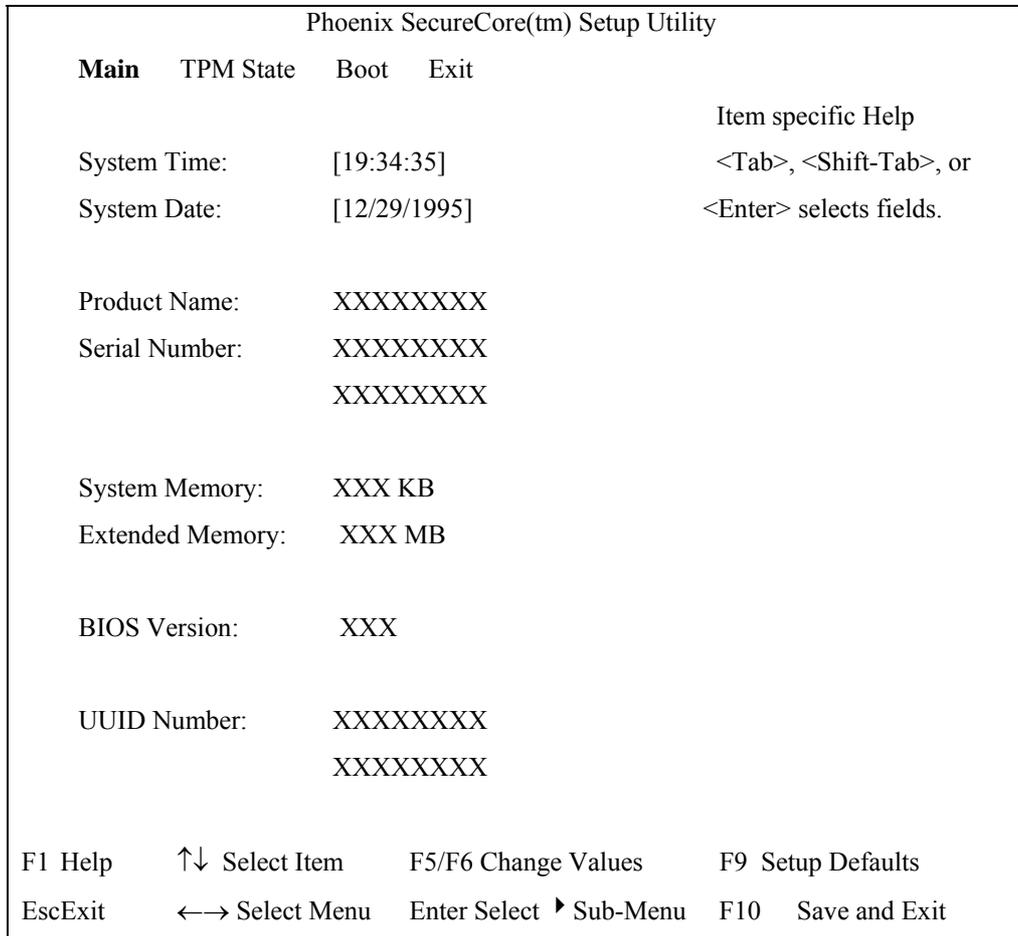
- You have set up your notebook for the first time and you got a message stating that you should run the BIOS Setup program.
- You want to redefine the communication ports to prevent any conflicts.



*The few examples listed above are by no means complete.*

### 7.2.1 Accessing the BIOS Setup Program

To access the BIOS Setup program, press the [F2] key as soon as your notebook starts up. The Phoenix BIOS screen will display.



#### The Menu Bar

The top of the Setup screen has a menu bar with the following selections:

- Main**                Allows the user to specify standard IBM PC AT system parameters.
- TPM State**        Allows the user to configure TPM settings.
- Boot**                Allows the user to specify the order in which your notebook is to check for a device to boot the system.
- Exit**                Allows the user to save CMOS setting and exit Setup.

To move between menu bar items, use the [◀] and [▶] arrow keys until the desired item is highlighted. For example, if you want to move from the *Main menu* to the *Advanced menu*, press the right arrow key [▶] once.

### **Item Specific Help**

To the right of the Setup screen, you will notice an item specific help bar. For each item that you select on the menu, the bar informs of its specific function as well as the hot keys related to that item and/or submenu.

## **7.2.2 Launching Submenus**

A submenu contains the additional options for a field parameter. To call up a submenu, simply move the highlight to the desired field and press the [Enter] key. The submenu opens.

If you are a first time user or are not familiar with BIOS Setup program, it is highly recommended that you take a few minutes to familiarize yourself with each of the submenus and their corresponding functions. If you accidentally make unwanted changes to the current configuration, go to the *Exit menu* and select **Discard Changes**.

## **7.2.3 Saving Changes and Exiting the Setup Program**

Refer to the *Exit Menu* section of this chapter for the detailed information on saving changes and exiting the Setup program.

## 7.3 The Main Menu

When the Setup program is accessed, the Information screen appears. It displays the following pieces of information regarding your current system:

Phoenix SecureCore(tm) Setup Utility			
<b>Main</b>	TPM State	Boot	Exit
			Item specific Help
System Time:		[19:34:35]	<Tab>, <Shift-Tab>, or
System Date:		[12/29/1995]	<Enter> selects fields.
Product Name:		XXXXXXXXXX	
Serial Number:		XXXXXXXXXX	
		XXXXXXXXXX	
System Memory:		XXX KB	
Extended Memory:		XXX MB	
BIOS Version:		XXX	
UUID Number:		XXXXXXXXXX	
		XXXXXXXXXX	
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults
Esc/Exit	←→ Select Menu	Enter Select	▶ Sub-Menu F10 Save and Exit

### System Time and System Date

The hour is displayed with 24-hour format. The values set in these two fields take effect immediately.

### Product Name

This field displays the platform product name.

### Serial Number

This field displays the platform serial number.

### System Memory

This field reports the memory size of system base memory. The size is fixed to 640KB.

### Extended Memory

This field reports the memory size of the extended memory with an integer in the system, but 32Bit SMI will occupy 1 MB and UMA frame buffer (Integrated VGA uses only).

Extended Memory size = Total memory size – 1 MB – 1 MB – UMA frame buffer

**BIOS Version**

This field displays current version of the BIOS.

**UUID**

This field displays the platform UUID number.

## 7.4 The TPM State Menu

This menu allows the user to understand current TPM state and change the TPM state.

*The TPM state menu will show- up if TPM exists within the platform and Trusted Platform Support item be enabled in “Current TPM State”.*

Phoenix SecureCore(tm) Setup Utility			
Main	<b>TPM State</b>	Boot	Exit
Current TPM State: Disabled and Deactivated		Item specific Help	
Change TPM State	[No Change]	Change TPM State A disabled security chip prevents encrypted data from being used  A deactivated security chip prevents a user from taking ownership	
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults
EscExit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit

### Current TPM State

This field displays the current TPM state.

### Change TPM State

<b><u>No Change</u></b>	Do not change the TPM settings.
Enable & Activate	Enable chip encrypted data and user from taking ownership.
Deactivate & Disable	Disable security chip prevents encrypted data from being used and Deactivated security chip prevents a user from taking ownership.
Clear	Clear Security Chip to default state and release ownership.
Enable	Enable security chip encrypted data.
Disable	Disable security chip encrypted data.

Activate	Activated security chip to user talking ownership.
Deactivate	Deactivated security chip to user talking ownership.
Clear	Clear Security Chip to default state and release ownership.
Enable & Activate	Enable chip encrypted data and user from talking ownership.
Deactivate & Disable	Disable security chip prevents encrypted data from being used and Deactivated security chip prevents a user from talking ownership.
SetOwnerInstall, with state=True	Set owner install state = true.
SetOwnerInstall, with state=False	Set owner install state = false.
Enable + Activate + SetOwnerInstall_True	Enable chip encrypted data and user from talking ownership, and set owner install state = true.
Deactivate + Disable + SetOwnerInstall_False	Disable security chip prevents encrypted data from being used, deactivated security chip prevents a user from talking ownership, and set owner install state = false.
Clear + Enable + Activate	Clear security chip to default state and release ownership, then enable chip encrypted data and user from talking ownership.

## 7.5 The Boot Menu

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices include the diskette drive in module bay, the onboard hard disk drive and the CD-ROM in module bay.

Phoenix SecureCore(tm) Setup Utility			
Main	TPM State	<b>Boot</b>	Exit
Current TPM State: Disabled and Deactivated		Item specific Help	
Boot priority order:			
1:			
2:			
3:			
4:			
5:			
6:			
7:			
8:			
Excluded from boot order:			
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults
EscExit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit



### **Load Setup Defaults**

Allows the user loads default values in CMOS Setup. The following message prompts the user to confirm after pressing [Enter] on this item.

Setup Confirmation Load default configuration now? [Yes] [No]
---

Select **Yes** to confirm or **No** to abort. You will then return to the setup screen.

### **Discard Changes**

Allows the user loads previous value in CMOS Setup.

### **Save Changes**

Allows the user to save changes and not exit Setup.